US Model AEP Wodel



MICRO DICTATOR

SPECIFICATIONS

Tape

(MICROCASSETTE) TM

Tape speeds

Battery life

 $2.4 \text{ cm/sec.} (15/_{16} \text{ ips}), 1.2 \text{ cm/sec.} (15/_{32} \text{ ips})$

Speaker Power output Approx. 2.8 cm (1 1/8 inches) dia. 250 mW (at 10% harmonic distortion)

Power requirements

3 V dc, two size AAA batteries (IEC designation R03),

or optional Sony BP-42 rechargeable battery pack

DC IN 3 V jack accepts: AC-39 ac power adaptor (optional) for use on 120 V ac,

60 Hz DCC-127A car battery cord (optional) and PC-200 dc plug adaptor (optional) for use on 12 V car battery

Continuous recording hours with built-in microphone: Approx. 6.5 hours (average) with alkaline batteries

Dimensions Approx. $50 \times 134 \times 20.2 \text{ mm (w/h/d)}$

 $(2 \times 5^9/_{32} \times {}^{13}/_{16} \text{ inches})$ not incl. projecting parts and controls

Approx. 195 g (6.9 oz) Weight

incl. batteries

0 dB = 0.775 V





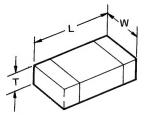
SERVICING NOTE

Chip components

Chip components include resistors, capacitors, transistors, diodes, coil and adjustable resistors.

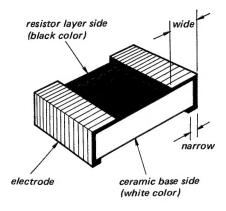
In this section, the types of resistors, ceramic capacitors, transistors and diodes which are used most frequently will be described.

Dimension of transistors and capacitors

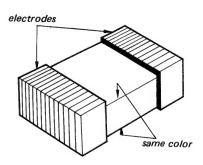


| | | | (Unit: mm) |
|------|-----|------|------------|
| Туре | L | w | Т |
| 3216 | 3.2 | 1.6 | 0.45 ~ 0.6 |
| 2125 | 2.0 | 1.25 | 0.35 ~ 0.5 |

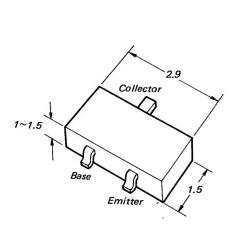
Identification



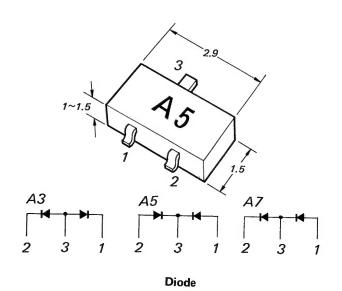
Resistor



Laminated Ceramic Capacitor



Transistor



Replacing chip components

All chip components should be connected and disconnected, using a tapered soldering iron [temperature of the iron tip: less than 280°C (536°F)], a pair of tweezers and braided wire.

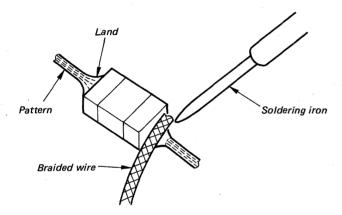
Precautions for replacement

- 1. Do not disconnect the chip component forcefully. Otherwise, the pattern may peel off.
- 2. Never re-use a disconnected chip component. Dispose of all old chip components.
- 3. To protect the chip component, heating time for attaching the component should be within 3 seconds.

O Removing chip components

(1) Removing solder at electrode

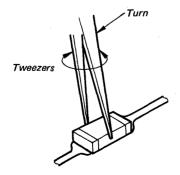
Remove the solder at the electrode, using a thin braided wire. Do not remove the solder of the part (chip component) attached adjacent to the electrode.



(2) Disconnecting chip components

Turn the tweezers with the soldering iron alternately applied to both electrodes, and the chip component will be disconnected. Take careful precautions while disconnecting, because if the chip component is forcefully removed the land may peel off.

Rever re-use a disconnected chip component.



(3) Smoothing the soldered surface

After disconnecting the chip component, remove the solder by using a braided wire to smooth the land surface.

O Connecting chip components

The value of chip components is not displayed on the main body. Take due precautions to avoid mixing new chip components with other ones.

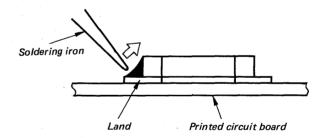
(1) Applying solder to land on one side

Apply a thin layer of solder to the land on one side where the chip component is to be connected. Too much solder may cause bridging.



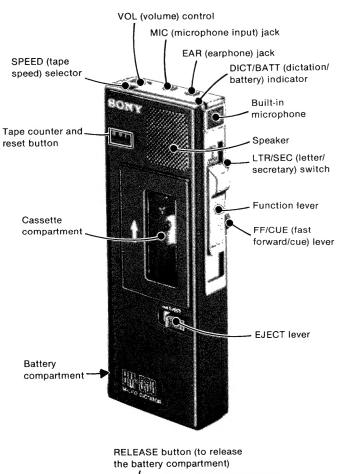
(2) Speedy soldering

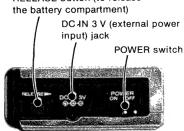
Hold the chip component at the desired position, using tweezers, and apply the soldering iron in the arrow-marked direction. To protect the chip component, heating time should be within 3 seconds.



(3) Speedy soldering of electrode on the other side Solder the electrode on the other side in the same way as in (2) above.

PARTS IDENTIFICATION

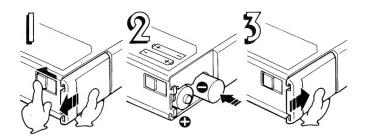




BATTERY INSTALLATION

Insert two size AAA batteries (IEC designation R03), following the illustrations.

Alkaline batteries are recommended.

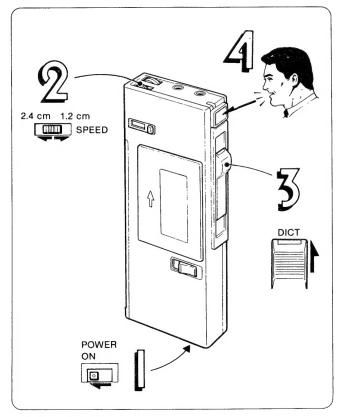


DICTATION

After inserting batteries and a cassette, operate the set following the illustrations.

With the BM-550, even a cassette with the tabs removed can be recorded, and previous recordings are automatically erased.

- For indexing the tape contents, set the tape counter to 000 by pushing the reset button.
- The DICT/BATT indicator flickers during recording.



Tape SPEED selector

- 2.4 cm: Provides 60 minutes of dictating time on both sides of the MC-60BM Microcassette. Recommended for normal dictation.
- 1.2 cm: Provides 120 minutes of dictating time on both sides of the MC-60BM Microcassette. Recommended for conference recording or lengthy dictation.

How to use the LTR/SEC switch

This function operates only in the dictate mode. To give instructions to your secretary, pull the switch down to the SEC position, an electronic index signal will be recorded on the tape. At the end of a letter, push the switch up to the LTR position, an electronic index signal will again be recorded on the tape.

When dictation is completed, remove the tape without rewinding.

When using the optional Sony BM-750 micro dictator/transcriber, the SEC and LTR marks are shown on the liquid crystal index display in the SCAN mode.

When using Sony Microcassette desk tops, the tape will stop automatically at each electronic index signal in the fast forward, backspace or rewind mode by the automatic stop function.



Push up to record an electronic index signal at the end of a letter.

Pull down to record an electronic index signal and record instructions to the secretary.

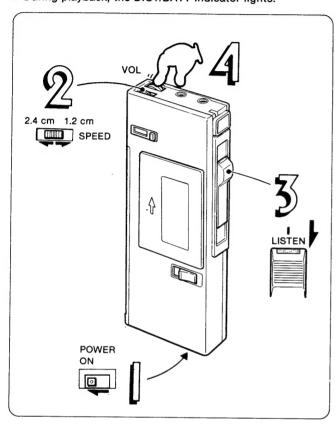
With an external microphone with a miniplug (optional), connect the microphone to the MIC jack, and set the BM-550 in the dictate mode. The built-in microphone is disconnected automatically.

For telephone recording, connect the TP-5S telephone pickup (optional) to the MIC jack, and set the BM-550 in the dictate mode. Refer to the instruction manual of the TP-5S.

PLAYBACK

After inserting batteries and a recorded cassette, operate the unit following the illustrations.

- For private listening, connect the earphone to the EAR jack.
- During playback, the DICT/BATT indicator lights.



To stop dictating or playback, set the function lever to STOP.

To review your dictation, slide the function lever down to the BACK position to rewind the tape. At the desired portion, release the function lever, and the recorded material will be heard.

To fast forward the tape, slide the FF/CUE lever in the direction of the arrow, with the function lever set to STOP. To stop the tape, release the FF/CUE lever.

CUE FUNCTION

During playback, you may skip-over unnecessary portions by sliding the FF/CUE lever in the direction of the arrow. When you release the lever, the unit will automatically return to the playback mode.

END ALARM

In any mode, the end alarm will sound at the end of the tape. To stop the alarm, set the function lever to STOP.

POWER SWITCH

With the POWER switch ON, the BM-550's amplifier and motor will not turn off immediately when the function lever is set to STOP. After about 1.5 minutes, the unit will automatically turn off.

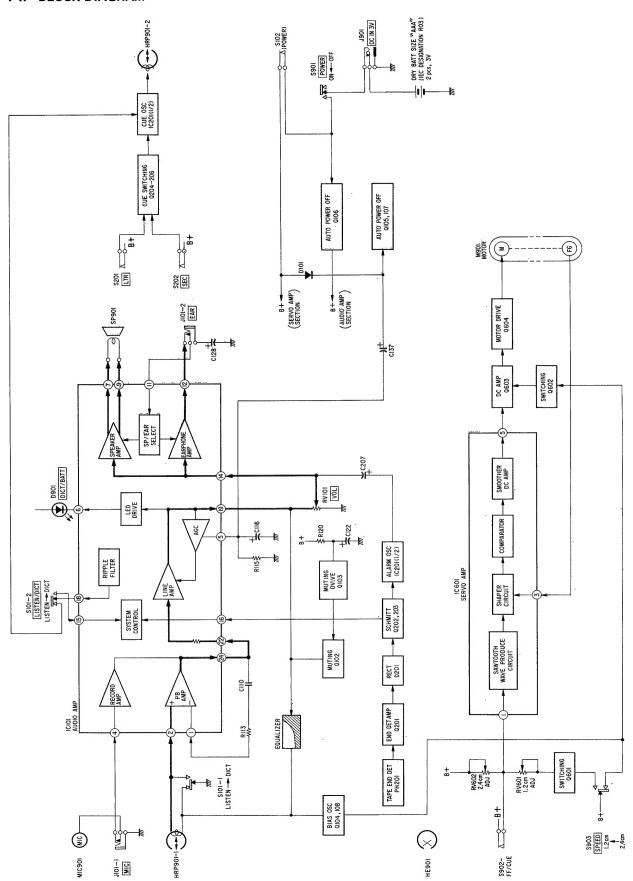
With this switch OFF, the unit will not turn on, even if the function lever is set to an operating mode by mistake, so that the batteries will be conserved.

ERASING WITHOUT RECORDING

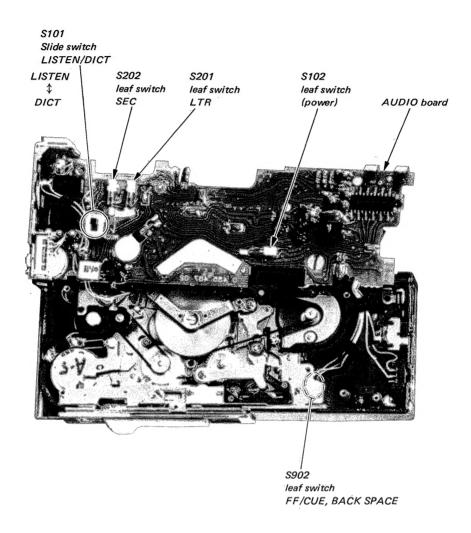
Insert the supplied SP-100 shorting plug in the MIC jack, and place the BM-550 in the dictate mode. Erasing will begin. After erasing, be sure to disconnect the SP-100.

SECTION 1 OUTLINE

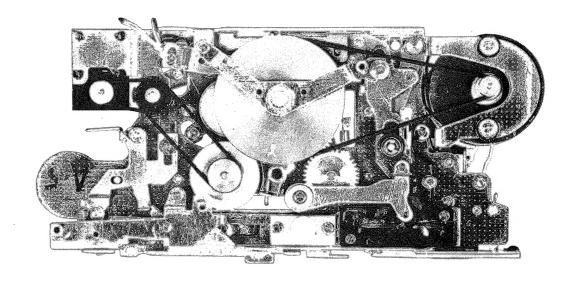
1-1. BLOCK DIAGRAM



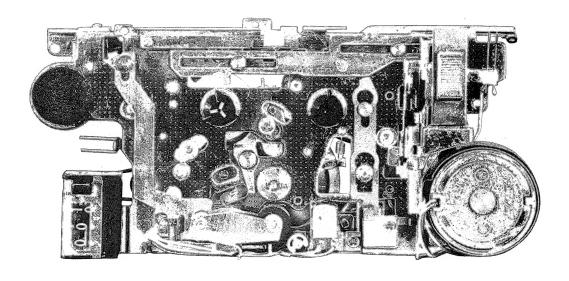
1-2. INTERNAL VIEW (1)



INTERNAL VIEW (2)

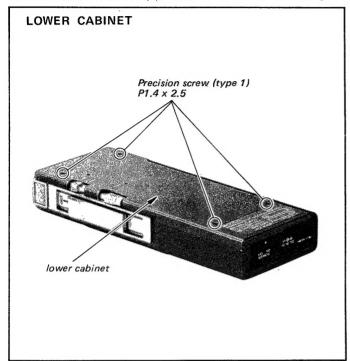


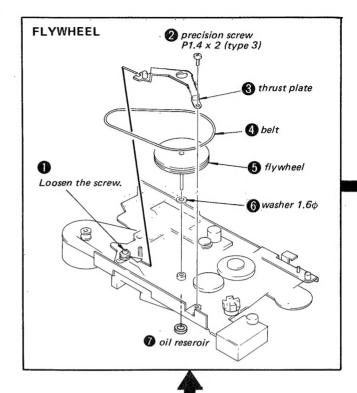
INTERNAL VIEW (3)

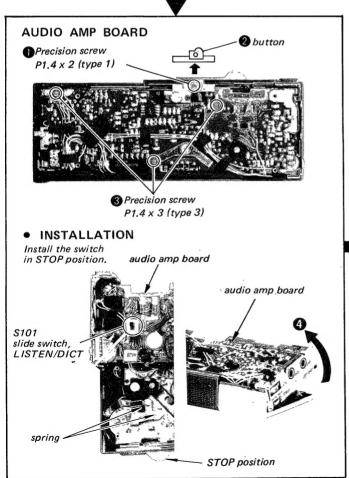


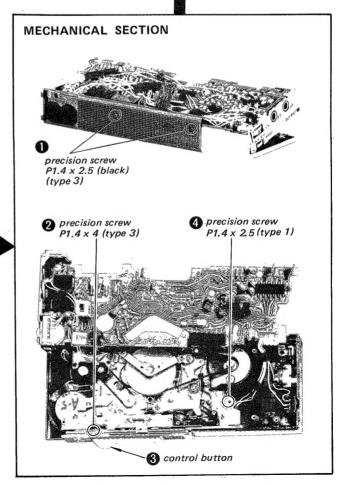
SECTION 2 DISASSEMBLY

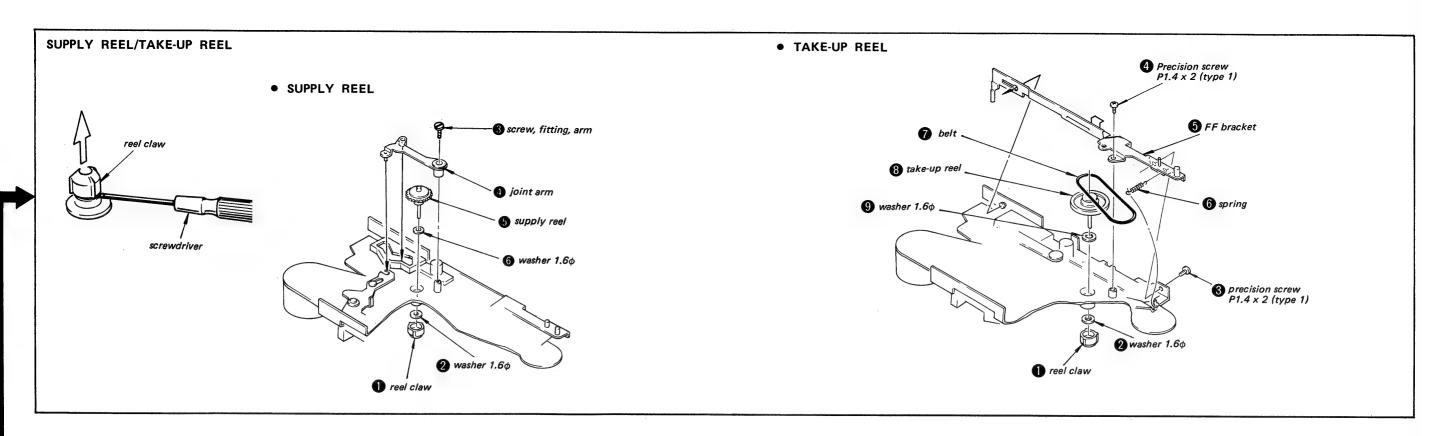
Note: Follow the disassembly procedure in the numerical order given.

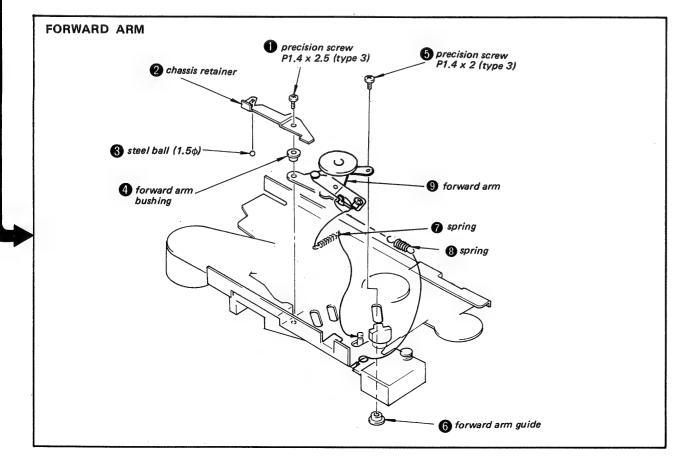


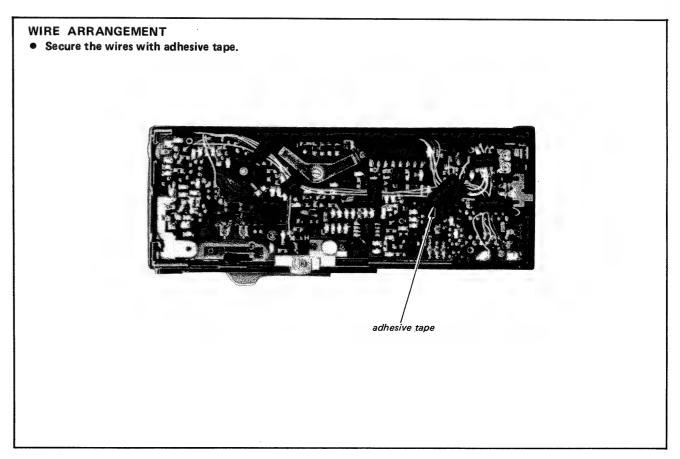












SECTION 3 ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denaturedalcohol-moistened swab:

record/playback head erase head

pinch roller rubber belts idlers

2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)

 Do not use a magnetized screwdriver for the adjustments.

4. After the adjustments, apply suitable locking compound to the parts adjusted.

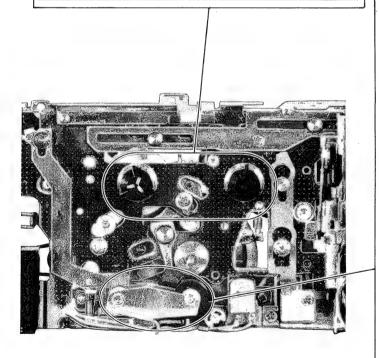
5. The adjustments should be performed with the rated power supply voltage (dc 2.5 V) unless otherwise noted.

Torque Measurement

capstan

Power Voltage: 3 V SPEED switch: 2.4 cm

| Mode | Torque meter (Cassette type) | Torque |
|---------------|------------------------------|---------------------------------------------------------------|
| LISTEN | CQ-103M | $5 \sim 12 \text{ g·cm}$ $(0.069 \sim 0.167 \text{ oz·inch})$ |
| FF | CQ-201M | more than 5 g·cm (more than 0.069 oz·inch) |
| BACK SPACE | CQ-201M | more than 14 g·cm (more than 0.19 oz·inch) |

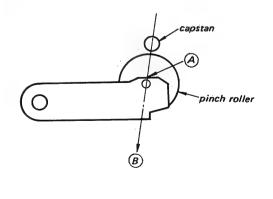


Pinch Roller Pressure Adjustment

- Playback Mode -

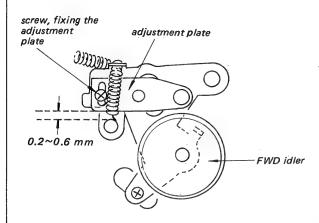
- 1. Hook the spring scale (300g) to the portion shown by the arrow (A).
- 2. Detach the pinch roller from the capstan in the direction shown by the arrow B.
- 3. Slowly return the pinch roller and read the spring scale just when the pinch roller starts rotating.

Specification: $90 \sim 105$ g $(1.25 \sim 1.46$ oz)

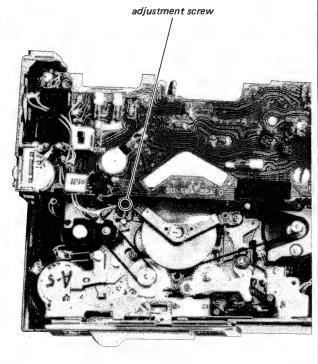


TIMING ADJUSTMENT

- 1. When take-up reel spindle rotates in LISTEN mode, confirm that the pinch roller presses to capstan and they rotate.
- 2. When they are not correctly rotate, adjust the place of adjustment plate.

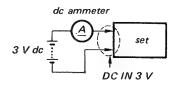


Adjustment Location:



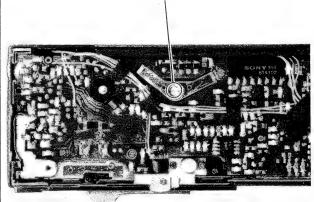
Flywheel Thrust Play Adjustment

- LISTEN Mode -



- 1. Turn the thrust screw counterclockwise until the screw tip leaves from the flywheel shaft.
- 2. Gradually turn the thrust screw clockwise to the position where the motor current suddenly increases.
- 3. Then, turn the thrust screw counterclockwise about ¼ turn from the position obtained in step 2.

thrust screw



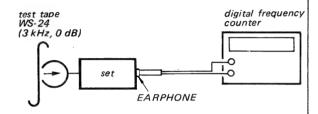
Tape Speed Adjustment

Setting:

VOLUME control: mechanical mid

Procedure:

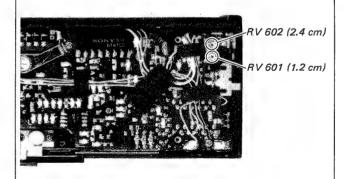
Mode: playback



- 1. Set the SPEED switch to 2.4 cm.
- 2. Adjust RV602 to obtain the specified value.
- 3. Set the SPEED switch to 1.2 cm.
- 4. Adjust RV601 to obtain the specified value.

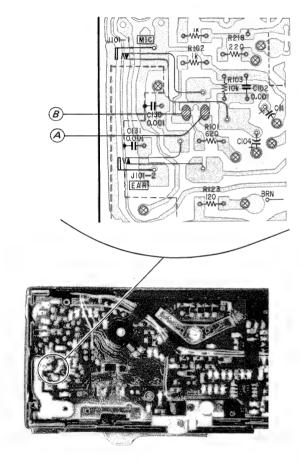
| SPEED | Digital Frequency Counter | | | | |
|--------|------------------------------|--|--|--|--|
| 2.4 cm | 2985 ~ 3015 Hz | | | | |
| 1.2 cm | 1494 ~ 1506 Hz | | | | |

Adjustment Location:



Microphone Sensitivity Adjustment

1. In using an electret condenser microphone with a color mark on the microphone holder, solder the pattern as shown below.



Record/playback Head Azimuth Adjustment

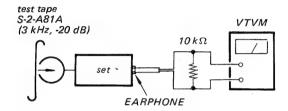
Setting:

VOLUME control: mechanical mid

SPEED switch: 2.4 cm

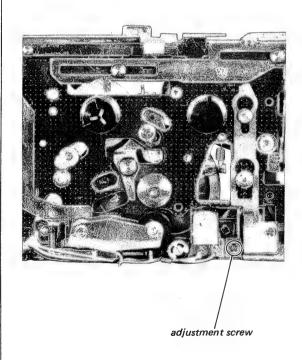
Procedure:

1. Mode: playback



2. Turn the adjustment screw for maximum VTVM reading.

Note: Several peaks may appear, but take the maximum.



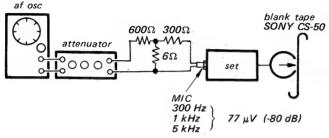
Record Bias Adjustment

Setting:

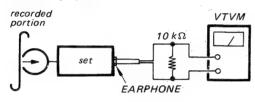
SPEED switch: 2.4 cm

Procedure:

1. Mode: record



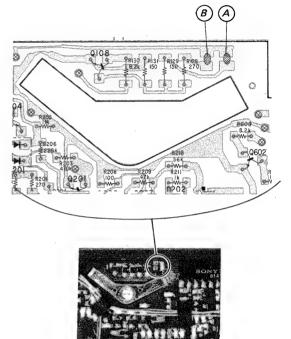
2. Mode: playback



| Record signal | VTVM reading |
|---------------|----------------------------------------------------------------|
| 1 kHz | Adjust PB VOL control for -20 dB (77 mV). |
| 300 Hz | Should be $-29 \pm 4 \text{ dB}$ (17 ~ 44 mV) |
| 5 kHz | Should be $-30 \pm 4 \text{ dB}$ (16 $\sim 39 \text{ mV}$) |

If necessary, change the soldering portions and repeat the steps 1 and 2.

| Soldering portion | 5 kHz Level | _ |
|-------------------|-------------|---|
| A + B | down | |
| A | Î | |
| B | up | |



SEE ADDITIONAL SEE ADDITION B C

BM-550 BM-550

Ε

SEE APPLITIONAL

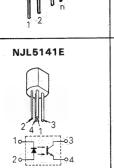
SECTION 4 DIAGRAMS

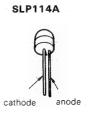
4-1. MOUNTING DIAGRAM

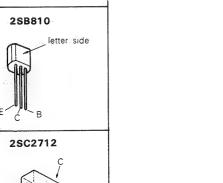
- Conductor Side -

Semiconductors Lead Layout

| Semiconductors Lead Layout | | | | | | | |
|----------------------------|---------------|--|--|--|--|--|--|
| CX807 NJM2903M | 182835 | | | | | | |
| | 3 Q-R 2 | | | | | | |
| | 2 3 1 | | | | | | |
| CX891 | 1\$2837 | | | | | | |
| | 3 | | | | | | |





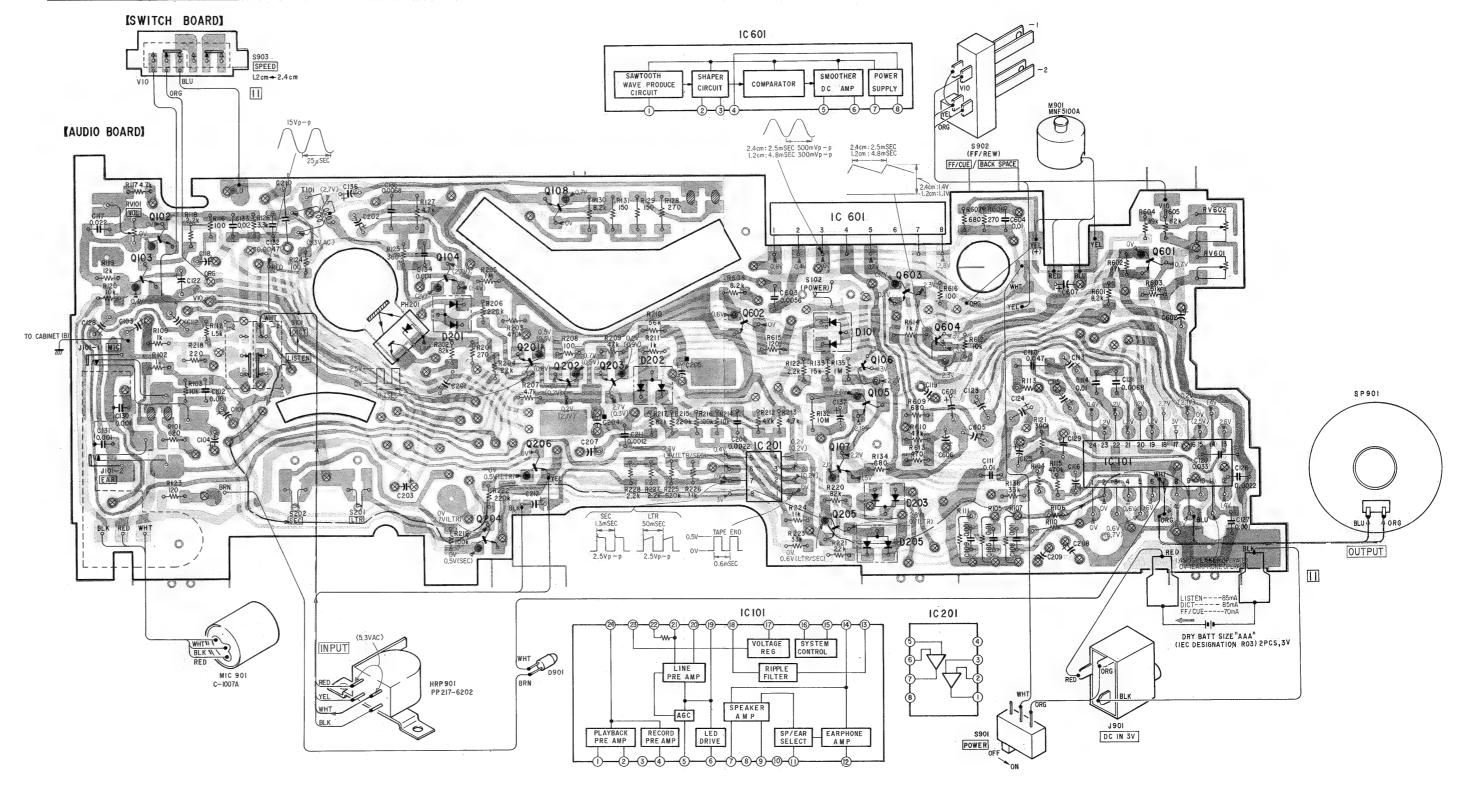


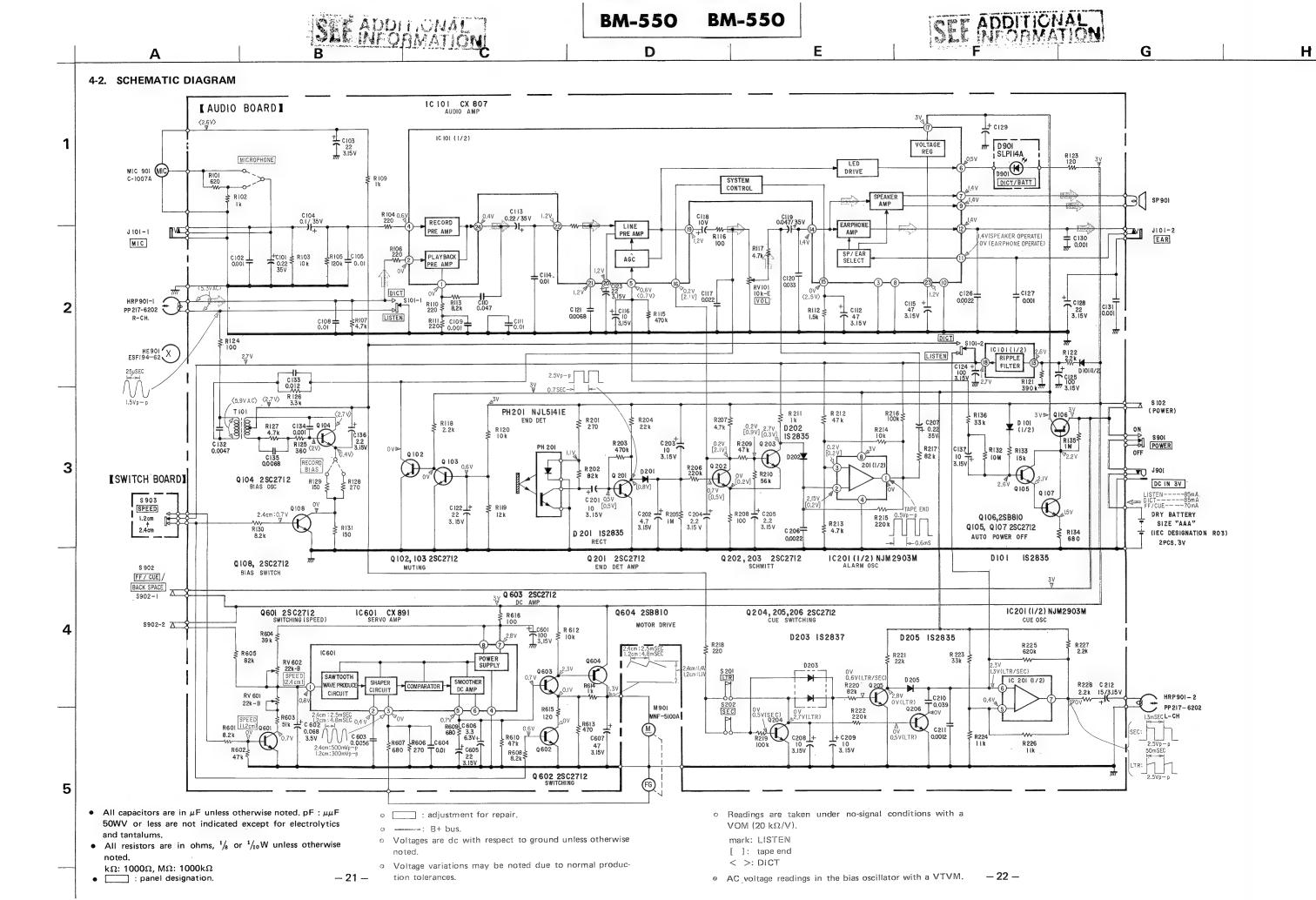
Note

- o—: parts extracted from the component side.
- •—: parts extracted from the conductor side. 5
- ♦ : Through hole.
- component-side pattern.
- signal patl
- : L-CH signal path
- : R-CH signal path

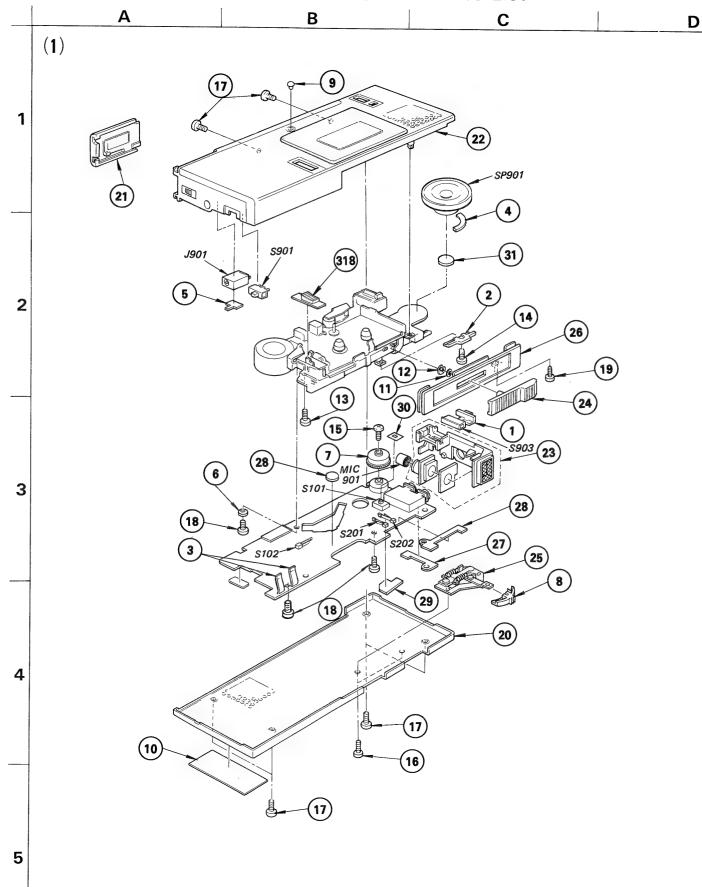
| Q IC | 102 | PH201 104 201 204 206 | 8 202 203 | 602 IC 201 | 10 601 106 603 107 105 604 205 | 601 1C101 |
|---------|-----|--------------------------|--------------|---------------|--------------------------------------|--------------|
| D | | 201 | 202 | | 203 205 | () |

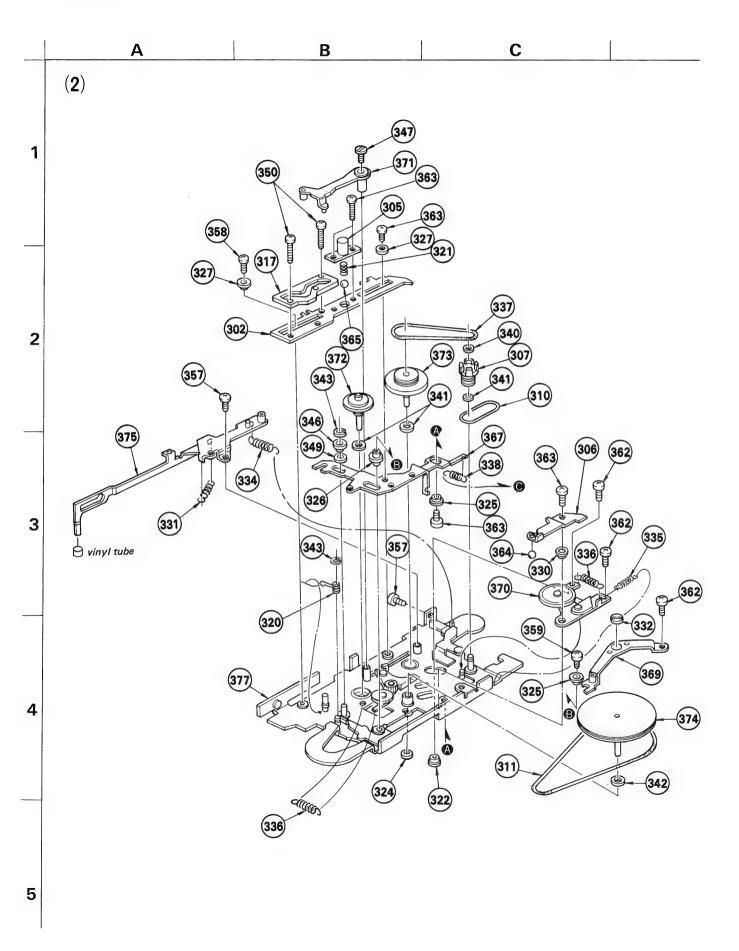
D

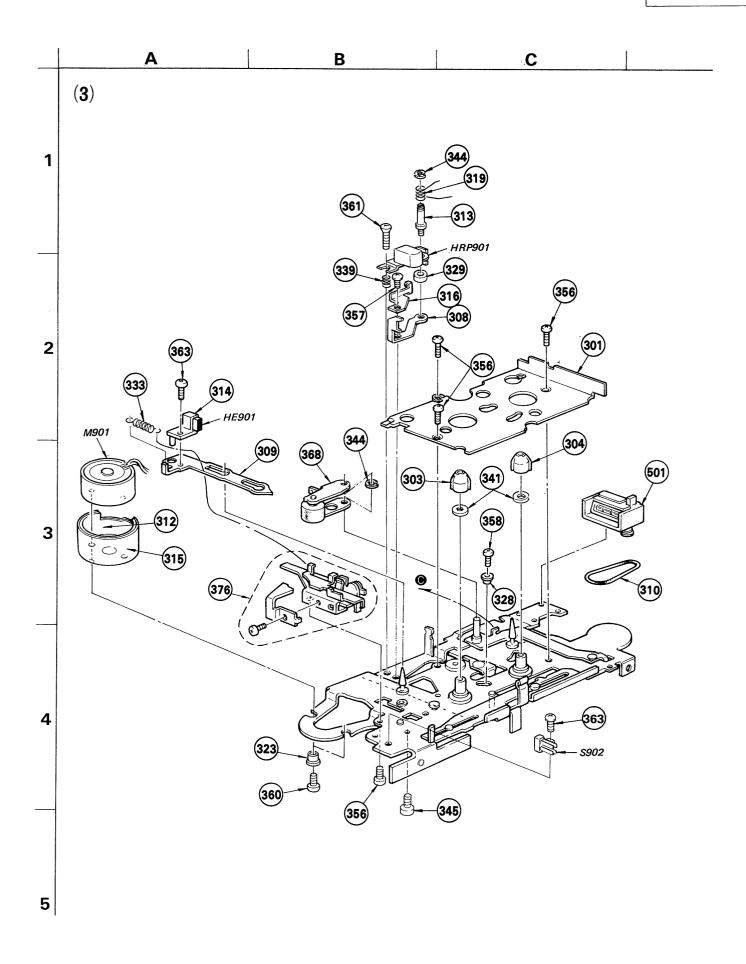




SECTION 5 EXPLODED VIEWS AND PARTS LIST







GENERAL SECTION

| No. | Part No. | Description |
|-------------------|----------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| 1 2 3 | 3-302-405-00 3-306-107-00 3-302-409-00 | KNOB, SPEED SELECTION BUTTON, FF SPRING |
| 5 | ;3-302-411-00 ;3-302-410-00 3-302-545-00 | |
| | 3-570-412-00 3-306-106-00 3-578-232-00 | KNOB, CONTROL BUTTON, MARKER ORNAMENT, ADJUSTMENT HOLE |
| 10 11 12 | 3-306-101-00 3-701-437-01 7-624-102-04 | LABEL, MODEL NUMBER WASHER STOP RING 1.5, TYPE -E |
| 14 | 7-627-551-27 7-627-551-17 7-627-552 - 37 | SCREW, PRECISION +P 1.4X2.5 SCREW, PRECISION +P 1.4X2 SCREW, PRECISION +P 1.7X3 |
| | 7-627-451-08 7-627-551-28 7-627-850-27 | SCREW, PRECISION +K 1.4X1.6 SCREW, PRECISION +P 1.4X2.5 SCREW, PRECISION +P 1.4X3 |
| 19 20 21 | 7-627-850-67 X-3306-101-0 A-3040-415-A | SCREW, PRECISION +P 1.4X4 CABINET (LOWER) ASSY LID ASSY, BATTERY CASE |
| 22 23 24 | X-3302-420-3 X-3302-423-1 X-3306-107-1 | CABINET ASSY CABINET (B) ASSY CONTROL BUTTON ASSY |
| 26 | ;X-3306-102-0 3-302-437-00 ;3-302-544-00 | CHASSIS ASSY, MARKER CABINET (C) SHEET, SHIELD |
| 29 (30 | ;3-306-111-00 ;3-306-120-00 3-570-921-00 9-911-844-XX | SHEET (A), INSULATING SHEET, INSULATING (B) SPACER, SWITCH CUSHION, SPEAKER |

ACCESSORY & PACKING MATERIAL

| No. | Part No. | Description |
|----------------------|--------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| 51 | 1-504-059-11 | MAGNETIC EARPHONE(ME-20H) |
| 52 | 1-506-309-00 | PLUG, SHORT (SP-100) |
| 53 | 3-302-414-00 | CUSHION |
| 54 | 3-302-415-00 | SPACER |
| 55 | 3-302-552-00 | CASE (A), CARRYING |
| 56 | 3-306-118-00 | INDIVIDUAL CARTON |
| 57 | 3-570-631-00 | BAG, POLYETHYLENE |
| 58 | 3-701-620-00 | BAG, POLYETHYLENE |
| 59 | 3-701-622-00 | BAG, POLYETHYLENE |
| 60 61 62 63 | 3-773-202-11 3-773-202-21 8-891-109-00 X-3701-105-0 | (AEP)MANUAL, INSTRUCTION (US)MANUAL, INSTRUCTION TAPE MC-60BM(S) ROD ASSY, CLEANING, HEAD |

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- · Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- . Due to standardization, parts with part numbers $(\Delta-\Delta\Delta\Delta-\Delta\Delta\Delta-XX$ or $\Delta-\Delta\Delta\Delta\Delta-\Delta\Delta\Delta-XX)$ may be different from those used in the set.

CAPACITORS:

All capacitors are in µF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF: μ F, PF: μ μ F.

RESÍSTORS

- · All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- \cdot F : nonflammable

COILS

· MMH : mH, UH : μH

SEMICONDUCTORS

In each case, $U:\mu$, for example: $UA\cdots:\mu A\cdots$, $UPA\cdots:\mu PA\cdots$, $UPC\cdots:\mu PC$, $\text{UPD}\cdots:\ \mu\text{PD}\cdots$

MECHANISM SECTION

| No. | Part No. | Description |
|-------------------|--------------------------------------------------------|-------------------------------------------------------------|
| 301 | \$;3-302-413-00 | PANEL, SUB |
| 302 | \$;3-302-457-00 | LEVER, CONTROL |
| 303 | 3-302-459-00 | CLAW (S), REEL |
| 304 | 3-302-460-00 | CLAW (T), REEL |
| 305 | \$;3-302-461-00 | RETAINER, SPRING |
| 306 | \$;3-302-462-00 | RETAINER, H CHASSIS |
| | 3-302-463-00 \$;3-302-464-00 \$;3-302-465-00 | PULLEY, RELAY GUIDE, TAPE LEVER, ERASE HEAD |
| | 3-302-470-00 3-302-471-00 5 ;3-302-472-00 | BELT (10.7X0.5) BELT (38X0.6) CASE, SHIELD |
| 314 | 3-302-473-00 ;3-302-474-00 ;3-302-475-00 | SHAFT, FITTING, HEAD BRACKET, ERASE HEAD COVER, MOTOR |
| 316 | ;3-302-476-00 | CLAMP |
| 317 | ;3-302-479-00 | GUIDE, CONTROL |
| 318 | 3-302-484-11 | KNOB, E |
| 319 | 3-302-488-00 | SPRING |
| 320 | 3-302-490-00 | SPRING |
| 321 | 3-302-492-00 | SPRING, COMPRESSION |
| 322 323 324 | | GUIDE, ARM, FWD SPACER, MOTOR RESERVOIR, OIL |
| 325 | ;3-302-534-00 | GUIDE (A), H CHASSIS |
| 326 | ;3-302-535-00 | GUIDE (C), H CHASSIS |
| 327 | 3-302-536-00 | GUIDE, CONTROL LEVER |
| 329 | ;3-302-537-00 3-302-540-00 ;3-302-541-00 | GUIDE, R ARM SPACER, HEAD BUSHING, FWD ARM |
| 331 | 3-527-188-00 | SPRING, TENSION |
| 332 | 3-547-625-00 | SCREW, THRUST ADJUST |
| 333 | 3-547-664-00 | SPRING, TENSION |
| 334 | 3-547-669-00 | SPRING, TENSION |
| 335 | 3-559-402-00 | SPRING, TENSION |
| 336 | 3-561-634-00 | SPRING, TENSION |
| 337 | 3-561-645-00 | BELT, C |
| 338 | 3-570-552-00 | SPRING, TENSION |
| 339 | 3-570-558-00 | SPRING, COMPRESSION |
| 340 | 3-570-615-00 | POLY-WASHER (DIA.1.2) |
| 341 | 3-701-436-01 | WASHER, 1.6 |
| 342 | 3-701-436-11 | WASHER, 1.6 |
| 343 | 7-624-101-04 | STOP RING 1.2 (E TYPE) |
| 344 | 7-624-102-04 | STOP RING 1.5, TYPE -E |
| 345 | 7-627-451-37 | SCREW, PRECISION +K 1.4X2 |

MECHANISM SECTION

| N | 0. | Part No. | Description |
|-----|----------------|----------------------------------------------|-------------------------------------------------------------------------------------------|
| 3 | | ;3-302-559-00 3-306-116-00 | ROLLER, GUIDE, H PC BOARD SCREW, FITTING, ARM |
| 3 | 50 | | WASHER SCREW, PRECISION +K 1.4X4 SCREW, PRECISION +P 1.4X1.6 |
| 3 3 | 57 58 59 | 7-627-551-17 7-627-551-27 7-627-851-27 | SCREW, PRECISION +P 1.4X2 SCREW, PRECISION +P 1.4X2.5 SCREW, PRECISION +P 1.4X5 |
| 3 | 61 | | SCREW, PRECISION +P 1.4X4 TYPE1 SCREW, PRECISION +P 1.7X5 SCREW, PRECISION +P 1.4X2 |
| 3 | 64 | 7-627-850-17 7-671-111-11 7-671-113-01 | SCREW, PRECISION +P 1.4X2.5 STEEL, BOUL 1.5MM BALL, STEEL 3MM |
| 3 | 57 🎳 | ;X-3302-403-2 | MOUNT BLOCK ASSY, AUDIO CHASSIS ASSY, HEAD PINCH LEVER ASSY |
| 3 | 70 | | PLATE ASSY, THRUST ARM ASSY, FWD ARM ASSY, JOINT |
| 3 | 73 | X-3302-414-0 X-3302-415-0 X-3302-416-0 | TABLE ASSY, REEL, S TABLE ASSY, REEL, TAKE-UP FLYWHEEL ASSY |
| 3, | /6 | X-3306-104-0 X-3302-418-0 X-3302-419-5 | BRACKET ASSY, FF LEVER ASSY, E FUNCTION CHASSIS ASSY, MECHANICAL |
| | | | |

NÓTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- . Due to standardization, parts with part numbers $(\Delta-\Delta\Delta\Delta-\Delta\Delta\Delta-XX$ or $\Delta-\Delta\Delta\Delta\Delta-\Delta\Delta\Delta-X)$ may be different from those used in the set.

CAPACITORS:

All capacitors are in μF . Common capacitors are omitted. Refer to the following lists for their part numbers. MF: μF , PF: $\mu \mu F$.

RESISTORS

1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.

• F : nonflammable

COILS

․ MMH : mH, UH : աH

SEMICONDUCTORS In each case, U : μ , for example: UA····: μ A····, UPA····: μ PA····, UPC····: μ PC, UPD····: μ PD····



ELECTRICAL PARTS

ELECTRICAL PARTS

| Ref.No. | Part No. | Description | | | | Ref.No. | Part No. | Description | | | |
|----------------------|----------------------------------------------|-------------------------------------------------|------------------------------|-------------------|-----------------------|-------------------------|----------------------------------------------|-------------------------------------------------|-------------------------|------------------------|------------------------------|
| 501 502 | 1-548-516-00 ;1-605-556-00 | TIMER, TAPE PC BOARD, SWI | ТСН | | | C208 C209 C210 | 1-131-390-00 1-131-426-00 1-130-627-00 | TANTALUM TANTALUM MYLAR | 15MF 10MF 0.039MF | 10% 20% 5% | 3.15V 3.15V 50V |
| C101 C102 C103 | 1-131-404-00 1-163-009-91 1-131-391-00 | CHIP COMPONEN | 0.22MF T 0.001MF 22MF | 20% 10% 20% | 35V 50V 3.15V | C211 C212 C601 | 1-163-143-91 1-131-390-00 1-131-395-00 | | | 5% 5% 20% 20% | 50V 50V 3.15V 3.15V |
| C104 C105 C108 | 1-131-402-00 1-163-021-00 1-163-021-00 | TANTALUM CHIP COMPONEN CHIP COMPONEN | | 20% 10% 10% | 35V 50V 50V | C602 C603 C604 | 1-131-401-00 1-163-018-91 1-163-021-00 | TANTALUM CHIP COMPONE CHIP COMPONE | 0.068MF NT 0.0056MF | 20% 10% 10% | 35V 50V 50V |
| C109 C110 C111 | 1-163-009-91 1-163-080-91 1-163-021-00 | CHIP COMPONEN CHIP COMPONEN CHIP COMPONEN | T 0.047MF | 10% 10% 10% | 50V 25V 50V | C605 C606 C607 | 1-131-391-00 1-131-422-00 1-131-393-00 | TANTALUM TANTALUM TANTALUM | 22MF 3.3MF 47MF | 20% 20% 20% | 3.15V 6.3V 3.15V |
| C112 C113 C114 | 1-131-393-00 1-131-404-00 1-163-021-00 | | 47MF 0.22MF T 0.01MF | 20% 20% 10% | 3.15V 35V 50V | D101 D201 D202 | 8-719-100-03 8-719-100-03 8-719-100-03 | | 47111 | 20% | 3.134 |
| C115 C116 C117 | 1-131-393-00 1-131-426-00 1-163-037-00 | | 47MF 10MF T 0.022MF | 20% 20% 10% | 3.15V 3.15V 25V | D203 D205 D901 | 8-719-100-05 8-719-100-03 8-719-921-14 | DIODE 1S2837 DIODE 1S2835 DIODE SLP-114 | 4.0 | | |
| C118 C119 C120 | 1-131-418-00 1-131-400-00 1-163-078-91 | | 1MF 0.047MF T 0.033MF | 20% 20% 10% | 10V 35V 25V | | 8-658-099-00 | ESF194-62 | TA | | |
| C121 | 1-163-019-91 | CHIP COMPONEN | | 10% | 50V | HRP901 | 8-825-533-00 | HEAD, REC/PB | (PP217-6202 | В) | |
| C122 C123 | 1-131-391-00 1-131-391-00 | | 22MF 22MF | 20% 20% | 3.15V 3.15V | IC101 IC201 IC601 | 8-759-608-07 8-759-700-07 8-759-608-91 | IC CX-807 IC NJM2903M IC CX-891 | | | |
| C124 C125 C126 | 1-131-395-00 1-131-395-00 1-163-013-00 | | 100MF 100MF T 0.0022MF | 20% 20% 10% | 3.15V 3.15V 50V | J101 J901 | 1-507-622-00 1-507-625-00 | JACK, 2P JACK, POWER | | | |
| C127 C128 C129 | 1-131-391-00 | | T 0.001MF 22MF 47MF | 10% 20% | 50V 3.15V | | 8-835-064-01 | • | • | | |
| C130 | | CHIP COMPONENT | | 20% | 6.3V 50V | | 8-814-189-00 8-719-751-42 | , | • | 1007A) | |
| C131 C132 | 1-163-047-00 | CHIP COMPONENT | T 0.001MF | 10% 10% 10% | 50V 50V | | 8-729-271-22 | TRANSISTOR 25 | | | |
| C133 C134 | 1-163-022-91 | CHIP COMPONENT | T 0.012MF | 10% 10% | 50V 50V | Q103 Q104 | 8-729-271-22 8-729-271-22 | TRANSISTOR 25 TRANSISTOR 25 | SC2712 | | |
| C135 | 1-131-424-00 | | 2.2MF | 10% 20% | 50V 3.15V | Q105 Q106 Q107 | 8-729-271-22 8-729-181-13 8-729-271-22 | TRANSISTOR 25 TRANSISTOR 25 TRANSISTOR 25 | SB811 | | |
| C137 C201 | | | LOMF LOMF | 20% 20% | 3.15V 3.15V | Q108 | 8-729-271-22 | TRANSISTOR 25 | | | |
| C202 C203 C204 | 1-131-426-00 | TANTALUM 1 | 1.7MF LOMF | 20% 20% | 3.15V 3.15V | Q201 Q202 | 8-729-271-22 8-729-271-22 | TRANSISTOR 25 | SC2712 | | |
| C204 C205 C206 | 1-131-424-00 | | 2.2MF 2.2MF F 0.0022MF | 20% 20% 10% | 3.15V 3.15V 50V | Q203 Q204 Q205 | 8-729-271-22 8-729-271-22 8-729-271-22 | TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S | C2712 | | |
| C207 | | | 0.22MF | 20% | 35V | Q206 Q601 Q602 | 8-729-271-22 8-729-271-22 8-729-271-22 | TRANSISTOR 2S TRANSISTOR 2S TRANSISTOR 2S | C2712 | | |

NOTE:

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- . Due to standardization, parts with part numbers (Δ - Δ (Δ - Δ (Δ - Δ) and be different from those used in the set.

CAPACITORS:

All capacitors are in μF . Common capacitors are omitted. Refer to the following lists for their part numbers. MF: μF , PF: $\mu \mu F$.

RESISTORS

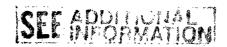
- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- \cdot F : nonflammable

COILS

· MMH : mH, UH : uH

SEMICONDUCTORS

In each case, U : μ, for example:
UA···: μΑ···, UPA···: μΡΑ···, UPC···: μPC,
UPD···: μPD···



ELECTRICAL PARTS

ELECTRICAL PARTS

Ref.No. Part No. Description Ref.No. Part No. Description Q603 8-729-271-22 TRANSISTOR 2SC2712 R209 1-216-089-00 CHIP COMPONENT 47K 1/10W 0604 CHIP COMPONENT 56K CHIP COMPONENT 1K 8-729-181-13 TRANSISTOR 2SB811 R210 1-216-091-00 5% 1/10W R211 1-216-049-00 5% 1/10W R101 1-216-044-00 CHIP COMPONENT 620 5% 1/10W R212 1-216-089-00 CHIP COMPONENT 47K 5% 1/10W R102 1-216-049-00 CHIP COMPONENT 1K 5% 1/10W R103 1-216-073-00 CHIP COMPONENT 10K 5% 1/10W R213 1-216-065-00 CHIP COMPONENT 4.7K 5% 1/10W 1-216-073-00 CHIP COMPONENT 10K R214 1/10W R104 1-246-775-00 220 5% 1/81 1-216-105-00 CHIP COMPONENT 220K R215 5% 1/10W R105 1-246-808-00 CARBON 120K 1/8W R216 1-216-097-00 CHIP COMPONENT 100K 1/10W R106 1-246-775-00 CARBON 220 5% 1/8W R217 1-216-095-00 CHIP COMPONENT 82K 1/10W R107 1-246-791-00 CARBON 1/8W CHIP COMPONENT 220 R218 1-216-033-00 5% 1/10W R109 1-216-049-00 CHIP COMPONENT 1K 5% 1/10W 1-216-097-00 CHIP COMPONENT 100K R219 5% 1/10W R110 1-246-775-00 CARBON 1/8W CHIP COMPONENT 82K R220 1-216-095-00 5% 1/10W R111 1-246-775-00 CARBON R221 1-216-081-00 CHIP COMPONENT 22K 5% 1/10W R112 1-216-053-00 CHIP COMPONENT 1.5K 1/10W R222 CHIP COMPONENT 220K CHIP COMPONENT 33K 1-216-105-00 5% 1/10W R113 1-246-794-00 CARBON 8.2K 1-216-085-00 1/8W R223 5% 1/10W R224 1-216-074-91 CHIP COMPONENT 11K 1/10W R115 1-216-113-00 CHIP COMPONENT 470K 1/10W CHIP COMPONENT 100 R116 5% 1/10W R225 1-216-116-91 CHIP COMPONENT 620K 1/10W 5% CHIP COMPONENT 4.7K 1-216-065-00 1/10W 1-216-074-91 CHIP COMPONENT 11K R117 5% R226 5% 1/10W 1-216-057-00 CHIP COMPONENT 2.2K R227 5% 1/10W R118 CHIP COMPONENT 2.2K 1-216-057-00 CHIP COMPONENT 2.2K 5% 1/10W R228 1-216-057-00 5% 1/10W 1-216-075-00 CHIP COMPONENT 12K R119 5% 1/10W R120 CHIP COMPONENT 10K 1-216-073-00 5% 1/10W R601 1-216-071-91 CHIP COMPONENT 8.2K 5% 1/10W R602 1-216-089-00 CHIP COMPONENT 47K 5% 1/10W 1/10W R121 1-216-111-91 CHIP COMPONENT 390K 1/10W 5% R603 1-216-090-91 CHIP COMPONENT 51K 5% 1-216-057-00 CHIP COMPONENT 2.2K R122 5% 1/104 R604 1-216-087-00 CHIP COMPONENT 39K 5% 1/10W R123 1-216-027-00 CHIP COMPONENT 120 5% 1/10W R605 1-216-095-00 CHIP COMPONENT 82K 5% 1/10W R124 1-216-025-00 CHIP COMPONENT 100 5% 1/10W CHIP COMPONENT 270 CHIP COMPONENT 680 R606 1-216-035-00 5% 1/10W R125 1-216-038-00 CHIP COMPONENT 360 5% 1/10k 1-216-045-00 R607 5% 1/10W R126 1-216-061-00 CHIP COMPONENT 3.3K 5% 1/10W R608 1-216-071-91 CHIP COMPONENT 8.2K 5% 1/10W R127 1-216-214-91 CHIP COMPONENT 4.7K CHIP COMPONENT 270 5% 1/8W R609 1-216-045-00 CHIP COMPONENT 680 5% 1/10W R128 1-216-184-91 CHIP COMPONENT 47K 1/8W 1-216-089-00 R610 5% 1/10W R129 1-216-178-00 CHIP COMPONENT 150 1/8W 1-216-073-00 CHIP COMPONENT 10K R612 5% 1/10W CHIP COMPONENT 470 1-216-041-00 R613 5% 1/10W R130 1-216-220-91 CHIP COMPONENT 8.2K 1/8W CHIP COMPONENT 150 R131 1-216-178-00 CHIP COMPONENT 1K CHIP COMPONENT 120 1/8W R614 1-216-198-91 5% 1/8W R132 1-216-294-91 CHIP COMPONENT 10M 5% 1/8W R615 1-216-027-00 5% 1/10W CHIP COMPONENT 100 R616 1-216-025-00 5% 1/10W R133 1-216-077-00 CHIP COMPONENT 15K 1-216-045-00 CHIP COMPONENT 680 1/10W R134 RES, VAR, CARBON 10K (VOL) RES, ADJ, METAL GLAZE 22K RES, ADJ, METAL GLAZE 22K 5% 1/10W 1-226-743-00 R135 1-216-121-00 CHIP COMPONENT 1M 5% 1/10W RV601 1-228-356-00 RV602 1-228-356-00 R136 1-216-085-00 CHIP COMPONENT 33K 1/10W 1-216-035-00 CHIP COMPONENT 270 R 201 5% SWITCH, SLIDE (DICT/LISTEN) SWITCH, LEAF (POWER) SWITCH, LEAF (LTR) 1/10W S101 1-553-223-00 CHIP COMPONENT 82K 1-216-095-00 R202 5% 1/10W S102 1-553-817-00 1-553-817-00 S201 1-216-113-00 CHIP COMPONENT 470K R 203 5% 1/10W S202 1-554-297-00 SWITCH, LEAF (SEC) CHIP COMPONENT 22K R204 1-216-081-00 5% 1/10W R205 1-216-121-00 CHIP COMPONENT 1M SWITCH, SLIDE (POWER) SWITCH, SLIDE (SPEED) SWITCH, LEAF (FF.CUE/BACK SPACE) 5% 1/10W S901 1-553-197-21 5903 1-553-280-00 R206 1-216-105-00 CHIP COMPONENT 220K 1/10W S902 1-553-818-00 R207 1-216-065-00 CHIP COMPONENT 4.7K 5% 1/10W 1-216-025-00 CHIP COMPONENT 100 R208 5% 1/10W SP901 1-502-896-21 SPEAKER T101 1-433-239-00 TRANSFORMER, BIAS OSCILLATOR

NOTE .

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked " " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers ($\Delta-\Delta\Delta\Delta-\Delta\Delta\Delta-XX$ or $\Delta-\Delta\Delta\Delta\Delta-\Delta\Delta\Delta-XX$) may be different from those used in the set.

CAPACITORS:

· All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

RESISTORS

- · All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- · F : nonflammable

COILS

· MMH : mH, UH : μH

SEMICONDUCTORS

In each case, U : μ, for example: UA···: μΑ···, UPA···: μΡΑ···, UPC···: μΡΟ, UPD···: μΡΟ···

ELECTROLYTIC CAPACITORS

| | | | RATING | | →: Use the high vol | tage rated one. |
|-----------|--------------|--------------|--------------|--------------|---------------------|-----------------|
| CAP. (µF) | 6.3 VOLT. | 10 VOLT. | 16 VOLT. | 25 VOLT. | 35 VOLT. | 50 VOLT. |
| | PART No. | PART No. |
| 0.47 | | | | | → | 1-121-726-00 |
| 1.0 | | | | | → | 1-121-391-00 |
| 2.2 | | | | | → | 1-121-450-00 |
| 3.3 | → | → | → | 1-121-392-00 | → | 1-121-393-00 |
| 4.7 | → | → | → | 1-121-395-00 | | 1-121-39() |
| 10 | → | → | 1-121-651-00 | 1-121-398-00 | → | 1-121-738-00 |
| 22 | → | → | 1-121-479-00 | 1-121-480-00 | 1-121-662-00 | 1-121-152-00 |
| 33 | → | > | 1-121-403-00 | 1-121-404-00 | 1-121-652-00 | 1-121-405-00 |
| 47 | → | 1-121-352-00 | 1-121-409-00 | 1-121-410-00 | 1-121-653-00 | 1-121-411-00 |
| 100 | → | 1-121-414-00 | 1-121-415-00 | 1-121-416-00 | 1-121-357-00 | 1-121-417-00 |
| 220 | 1-121-419-00 | 1-121-420-00 | 1-121-421-00 | 1-121-422-00 | 1-121-261-00 | 1-121-423-00 |
| 330 | 1-121-751-00 | 1-121-805-00 | 1-121-521-00 | 1-121-654-00 | 1-121-655-00 | 1-121-656-00 |
| 470 | 1-121-424-00 | 1-121-425-00 | 1-121-426-00 | 1-121-733-00 | 1-121-361-00 | 1-121-810-00 |
| 1000 | _ | 1-121-736-00 | 1-121-245-00 | 1-121-657-00 | 1-121-388-00 | 1-123-061-00 |
| 2200 | 1-121-658-00 | 1-121-659-00 | 1-121-660-00 | I-123-067-00 | 1-121-984-00 | _ |
| 3300 | 1-121-661-00 | 1-123-075-00 | 1-123-071-00 | _ | | _ |

| CAP, (µF) | 100 VOLT. | 160 VOLT. | 250 VOLT. | 350 VOLT. |
|-----------|--------------|--------------|--------------|--------------|
| CAP. (µF) | PART No. | PART No. | PART No. | PART No. |
| 0.47 | _ | _ | _ | _ |
| 1.0 | 1-123-249-00 | 1-123-252-00 | 1-123-003-00 | 1-121-168-00 |
| 2.2 | 1-123-250-00 | 1-123-026-00 | _ | 1-123-028-00 |
| 3.3 | 1-121-995-00 | _ | 1-123-004-00 | 1-123-006-00 |
| 4.7 | 1-123-255-00 | 1-121-246-00 | 1-121-759-00 | 1-123-007-00 |
| 10 | 1-121-126-00 | 1-121-999-00 | 1-123-254-00 | 1-123-008-00 |
| 22 | 1-121-996-00 | 1-123-253-00 | 1-123-005-00 | 1-123-022-00 |
| 33 | 1-121-997-00 | 1-121-757-00 | _ | |
| 47 | 1-123-251-00 | 1-121-919-00 | _ | _ |
| 100 | 1-123-084-00 | | | |
| | | 1 | | 1 |

CERAMIC CAPACITORS

| | | | RAT | ΓING | | | |
|------------|--------------|-----------|--------------|-----------|--------------|-----------|--------------|
| CAP. (pF) | 50 VOLT. | CAP. (pF) | 50 VOLT. | 048 (-5) | 50 VOLT. | 045 (5) | 50 VOLT. |
| CAL. (pl.) | PART No. | CAF. (pF) | PART No. | CAP. (pF) | PART No. | CAP. (µF) | PART No. |
| 0.5 | 1-101-837-00 | 22 | 1-102-959-00 | 150 | 1-101-361-00 | 0.001 | 1-102-074-00 |
| 0.75 | 1-101-586-00 | 24 | 1-102-960-00 | 160 | 1-101-367-00 | 0.0012 | 1-102-118-00 |
| 1.0 | 1-102-934-00 | 27 | 1-102-961-00 | 180 | 1-102-976-00 | 0.0015 | 1-102-119-00 |
| 1.5 | 1-101-576-00 | 30 | 1-102-962-00 | 200 | 1-102-977-00 | 0.0018 | 1-102-120-00 |
| 2.0 | 1-102-935-00 | 33 | 1-102-963-00 | 220 | 1-102-978-00 | 0.0022 | 1-102-121-00 |
| 3 | 1-102-936-00 | 36 | 1-102-964-00 | 240 | 1-102-979-00 | 0.0027 | 1-102-122-00 |
| 4 | 1-102-937-00 | 39 | 1-102-965-00 | 270 | 1-102-980-00 | 0.0033 | 1-102-123-00 |
| 5 | 1-102-942-00 | 43 | 1-102-966-00 | 300 | 1-102-981-00 | 0.0039 | 1-102-124-00 |
| 6 | 1-102-943-00 | 47 | 1-101-880-00 | 330 | 1-102-820-00 | 0.0047 | 1-102-125-00 |
| 7 | 1-102-944-00 | 51 | 1-101-882-00 | 360 | 1-102-821-00 | 0.0056 | 1-102-126-00 |
| 8 | 1-102-945-00 | 56 | 1-101-884-00 | 390 | 1-102-822-00 | 0.0068 | 1-102-127-00 |
| 9 | 1-102-946-00 | 62 | 1-101-886-00 | 430 | 1-102-823-00 | 0.0082 | 1-102-128-00 |
| 10 | 1-102-947-00 | 68 | 1-101-888-00 | 470 | 1-102-824-00 | 0.01 | 1-102-129-00 |
| 11 | 1-102-948-00 | 75 | 1-101-890-00 | 510 | 1-101-059-00 | 0.022 | 1-101-005-00 |
| 12 | 1-102-949-00 | 82 | 1-102-971-00 | 560 | 1-102-115-00 | 0.047 | 1-101-006-00 |
| 13 | 1-102-950-00 | 91 | 1-102-972-00 | 680 | 1-102-116-00 | | |
| 15 | 1-102-951-00 | 100 | 1-102-973-00 | 820 | 1-102-117-00 | | |
| 16 | 1-102-952-00 | 110. | 1-102-815-00 | | | | |
| 18 | 1-102-953-00 | 120 | 1-102-816-00 | | | | |
| 20 | 1-102-958-00 | 130 | 1-101-081-00 | | | | |

0.001µF = 1,000pF

CERAMIC (SEMICONDUCTOR) CAPACITORS

| RATING →: Use the high voltage rated one | | | | | | | | |
|------------------------------------------|--------------|--------------|-----------|--------------|-------------|--|--|--|
| CAP. (μF) | 25 VOLT. | 50 VOLT. | 000 (| 25 VOLT. | 50 VOLT. | | | |
| CAF. (µF) | PART No. | PART No. | CAP. (µF) | PART No. | PART No. | | | |
| 0.001 | → | 1-161-039-00 | 0.018 | 1-161-016-00 | 1-161-054-0 | | | |
| 0.0012 | → | 1-161-040-00 | 0.022 | 1-161-017-00 | 1-161-055-0 | | | |
| 0.0015 | | 1-161-041-00 | 0.027 | 1-161-018-00 | 1-161-056-0 | | | |
| 0.0018 | | 1-161-042-00 | 0.033 | 1-161-019-00 | 1-161-057-0 | | | |
| 0.0022 | | 1-161-043-00 | 0.039 | 1-161-010-00 | 1-161-058-0 | | | |
| 0.0027 | → | 1-161-044-00 | 0.047 | 1-161-021-00 | 1-161-059-0 | | | |
| 0.0033 | → | 1-161-045-00 | 0.056 | → | 1-161-060-0 | | | |
| 0.0039 | → | 1-161-046-00 | 0.068 | → | 1-161-061-0 | | | |
| 0.0047 | → ' | 1-161-047-00 | 0.082 | 1-161-024-00 | 1-161-062-0 | | | |
| 0.0056 | → | 1-161-048-00 | 0.1. | 1-161-025-00 | 1-161-063-0 | | | |
| 0.0068 | → | 1-161-049-00 | | | | | | |
| 0.0082 | 1-161-012-00 | 1-161-050-00 | | | | | | |
| 0.01 | 1-161-013-00 | 1-161-051-00 | | | | | | |
| 0.012 | → | 1-161-052-00 | | | | | | |
| 0.015 | 1-161-015-00 | 1-161-053-00 | | | | | | |

MYLAR CAPACITORS

| | RATING | | | | | | | | | | |
|-----------|--------------|--------------|--------------|-----------|--------------|--------------|--------------|-----------|--------------|--------------|--------------|
| / -> | 50 VOLT. | 100 VOLT. | 200 VOLT. | 04D (UE) | 50 VOLT. | 100 VOLT. | 200 VOLT. | CAP. (μF) | 50 VOLT. | 100 VOLT. | 200 VOLT. |
| CAP. (μF) | PART No. | PART No. | PART No. | CAP. (µF) | PART No. | PART No. | PART No. | CAP. (µF) | PART No. | PART No. | PART No. |
| 0.001 | 1-108-227-00 | 1-108-365-00 | 1-108-409-00 | 0.01 | 1-108-239-00 | 1-108-377-00 | 1-108-421-00 | 0.1 | 1-108-251-00 | 1-108-389-00 | 1-108-433-00 |
| 0.0012 | 1-108-351-00 | 1-108-366-00 | 1-108-410-00 | 0.012 | 1-108-357-00 | 1-108-378-00 | 1-108-422-00 | 0.12 | 1-108-363-00 | 1-108-390-00 | 1-108-434-00 |
| 0.0015 | 1-108-228-00 | 1-108-367-00 | 1-108-411-00 | 0.015 | 1-108-240-00 | 1-108-379-00 | 1-108-423-00 | 0.15 | 1-108-252-00 | 1-108-391-00 | 1-108-435-00 |
| 0.0018 | 1-108-352-00 | 1-108-368-00 | 1-108-412-00 | 0.018 | 1-108-358-00 | 1-108-380-00 | 1-108-424-00 | 0.18 | 1-108-364-00 | 1-108-392-00 | 1-108-436-00 |
| 0.0022 | 1-108-230-00 | 1-108-369-00 | 1-108-413-00 | 0.022 | 1-108-242-00 | 1-108-381-00 | 1-108-425-00 | 0.22 | 1-108-254-00 | 1-108-393-00 | 1-108-437-00 |
| 0.0027 | 1-108-353-00 | 1-108-370-00 | 1-108-414-00 | 0.027 | 1-108-359-00 | 1-108-382-00 | 1-108-426-00 | 0.27 | 1-108-854-00 | _ | _ |
| 0.0033 | 1-108-232-00 | 1-108-371-00 | 1-108-415-00 | 0.033 | 1-108-244-00 | 1-108-383-00 | 1-108-427-00 | 0.33 | 1-108-855-00 | _ | _ |
| 0.0039 | 1-108-354-00 | 1-108-372-00 | 1-108-416-00 | 0.039 | 1-108-360-00 | 1-108-384-00 | 1-108-428-00 | 0.39 | 1-108-856-00 | _ | _ |
| 0.0047 | 1-108-234-00 | 1-108-373-00 | 1-108-417-00 | 0.047 | 1-108-246-00 | 1-108-385-00 | 1-108-429-00 | 0.47 | 1-108-857-00 | _ | - |
| 0.0056 | 1-108-355-00 | 1-108-374-00 | 1-108-418-00 | 0.056 | 1-108-361-00 | 1-108-386-00 | 1-108-430-00 | | | | |
| 0.0068 | 1-108-237-00 | 1-108-375-00 | 1-108-419-00 | 0.068 | 1-108-249-00 | 1-108-387-00 | 1-108-431-00 | | | | |
| 0.0082 | 1-108-356-00 | 1-108-376-00 | 1-108-420-00 | 0.082 | 1-108-362-00 | 1-108-388-00 | 1-108-432-00 | | | | |



| | | | RATING | →: | Use the high voltage | rated one, | |
|-----------|--------------|--------------|--------------|--------------|----------------------|--------------|--------------|
| (-) | 3.15 VOLT. | 6.3 VOLT. | 10 VOLT. | 16 VOLT. | 20 VOLT. | 25 VOLT. | 35 VOLT. |
| CAP. (µF) | PART No. | PART No. | PART No. |
| 0.01 | | | | | → | → | 1-131-396-00 |
| 0.015 | | | | | | → | 1-131-397-00 |
| 0.022 | | | | | | → | 1-131-398-00 |
| 0.033 | | | | | | | 1-131-399-00 |
| 0.047 | | | | | | → | 1-131-400-00 |
| 0.068 | | | | | → | → | 1-131-401-00 |
| 0.1 | | | | | → | → | 1-131-402-00 |
| 0.15 | | | | | → | → | 1-131-403-00 |
| 0.22 | | | | | → | → | 1-131-404-00 |
| 0.33 | | | | | → | 1-131-409-00 | 1-131-405-00 |
| 0.47 | _ | - | _ | _ | 1-131-412-00 | → | 1-131-406-00 |
| 0.68 | _ | _ | _ | 1-131-415-00 | → | 1-131-410-00 | 1-131-407-00 |
| 1.0 | _ | _ | 1-131-418-00 | _ | 1-131-413-00 | → | 1-131-408-00 |
| 1.5 | _ | 1-131-421-00 | _ | 1-131-416-00 | → | 1-131-411-00 | 1-131-348-00 |
| 2.2 | 1-131-424-00 | _ | 1-131-419-00 | _ | 1-131-414-00 | 1-131-355-00 | 1-131-349-00 |
| 3.3 | | 1-131-422-00 | - | 1-131-417-00 | 1-131-362-00 | 1-131-356-00 | 1-131-350-00 |
| 4.7 | 1-131-425-00 | _ | 1-131-420-00 | 1-131-369-00 | 1-131-363-00 | 1-131-357-00 | 1-131-351-00 |
| 6.8 | _ | 1-131-423-00 | 1-131-376-00 | 1-131-370-00 | 1-131-364-00 | 1-131-358-00 | 1-131-352-00 |
| 10 | 1-131-426-00 | 1-131-383-00 | 1-131-377-00 | 1-131-371-00 | 1-131-365-00 | 1-131-359-00 | 1-131-353-00 |
| 15 | 1-131-390-00 | 1-131-384-00 | 1-131-378-00 | 1-131-372-00 | 1-131-366-00 | 1-131-360-00 | _ |
| 22 | 1-131-391-00 | 1-131-385-00 | 1-131-379-00 | 1-131-373-00 | 1-131-367-00 | | |
| 33 | 1-131-392-00 | 1-131-386-00 | 1-131-380-00 | 1-131-374-00 | 1 | | |
| 47 | 1-131-393-00 | 1-131-387-00 | 1-131-381-00 | | | | |
| 68 | 1-131-394-00 | 1-131-388-00 | _ | _ | | | |
| 100 | 1-131-395-00 | _ | _ | _ | | | |

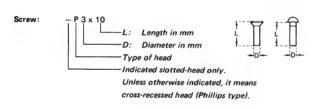


| | | | RATING | | | |
|-----------|--------------|--------------|--------------|--------------|--------------|--------------|
| 040 () | 3 VOLT. | 6.3 VOLT. | 10 VOLT. | 16 VOLT. | 20 VOLT. | 35 VOLT. |
| CAP. (µF) | PART No. |
| 0.033 | | | | | | 1-131-273-00 |
| 0.047 | | | | | | 1-131-274-00 |
| 0.068 | | | | | | 1-131-275-00 |
| 0.1 | | | | | | 1-131-276-00 |
| 0.15 | | | | | | 1-131-277-00 |
| 0.22 | | | _ | _ | 1-131-262-00 | 1-131-278-00 |
| 0.33 | | | _ | _ | 1-131-263-00 | 1-131-279-00 |
| 0.47 | | | 1-131-169-00 | - | 1-131-264-00 | 1-131-280-00 |
| 0.68 | | | | 1-131-258-00 | 1-131-265-00 | 1-131-281-00 |
| 1.0 | | : | 1-131-254-00 | _ | 1-131-266-00 | 1-131-282-00 |
| 1.5 | | 1-131-250-00 | _ | _ | 1-131-267-00 | 1-131-283-00 |
| 2.2 | | - | _ | 1-131-259-00 | 1-131-268-00 | 1-131-284-00 |
| 3.3 | | _ | 1-131-255-00 | _ | 1-131-269-00 | - |
| 4.7 | | 1-131-251-00 | 1-131-171-00 | _ | 1-131-270-00 | _ |
| 6.8 | | _ | _ | 1-131-260-00 | 1-131-271-00 | _ |
| 10 | _ | _ | 1-131-256-00 | - | 1-131-272-00 | |
| 15 | _ | 1-131-252-00 | _ | 1-131-261-00 | | |
| 22 | _ | _ | 1-131-257-00 | _ | | |
| 33 | 1-131-176-00 | 1-131-253-00 | 1-131-173-00 | _ | | |
| 47 | 1-131-288-00 | 1-131-174-00 | - | - | | |
| 100 | 1-131-177-00 | | | | | |

1/4 WATT CARBON RESISTORS

| Ω | Part No. | Ω | Part No. | Ω | Part No. | Ω | Part No. | Ω | Part No. | Ω | Part No. | Ω | Part No. |
|-----|--------------|----|--------------|-----|--------------|------|--------------|-----|--------------|------|--------------|------|--------------|
| 1.0 | 1-246-401-00 | 10 | 1-246-425-00 | 100 | 1-246-449-00 | 1.0k | 1-246-473-00 | 10k | 1-246-497-00 | 100k | 1-246-521-00 | 1.0M | 1-246-545-00 |
| 1.1 | 1-246-402-00 | 11 | 1-246-426-00 | 110 | 1-246-450-00 | 1.1k | 1-246-474-00 | 11k | 1-246-498-00 | 110k | 1-246-522-00 | 1 | 1-210-814-00 |
| 1.2 | 1-246-403-00 | 12 | 1-246-427-00 | 120 | 1-246-451-00 | 1.2k | 1-246-475-00 | 12k | 1-246-499-00 | 120k | 1-246-523-00 | 1.2M | 1-210-815-00 |
| 1.3 | 1-246-404-00 | 13 | 1-246-428-00 | 130 | 1-246-452-00 | 1.3k | 1-246-476-00 | 13k | 1-246-500-00 | 130k | 1-246-524-00 | 1.3M | 1-210-816-00 |
| 1.5 | 1-246-405-00 | 15 | 1-246-429-00 | 150 | 1-246-453-00 | 1.5k | 1-246-477-00 | 15k | 1-246-501-00 | 150k | 1-246-525-00 | 1.5M | 1-210-817-00 |
| ١., | | 10 | | 100 | 1 040 454 00 | 1 01 | 1 040 470 00 | 101 | | | | | |
| 1.6 | 1-246-406-00 | 16 | 1-246-430-00 | 160 | 1-246-454-00 | 1.6k | | 16k | 1-246-502-00 | | 1-246-526-00 | | 1-210-818-00 |
| 1.8 | 1-246-407-00 | 18 | 1-246-431-00 | 180 | 1-246-455-00 | 1.8k | 1-246-479-00 | 18k | 1-246-503-00 | 180k | 1-246-527-00 | | 1-210-819-00 |
| 2.0 | 1-246-408-00 | 20 | 1-246-432-00 | 200 | 1-246-456-00 | 2.0k | 1-246-480-00 | 20k | 1-246-504-00 | 200k | 1-246-528-00 | | 1-210-820-00 |
| 2.2 | 1-246-409-00 | 22 | 1-246-433-00 | 220 | 1-246-457-00 | 2.2k | 1-246-481-00 | 22k | 1-246-505-00 | 220k | 1-246-529-00 | 2.2M | 1-210-821-00 |
| 2.4 | 1-246-410-00 | 24 | 1-246-434-00 | 240 | 1-246-458-00 | 2.4k | 1-246-482-00 | 24k | 1-246-506-00 | 240k | 1-246-530-00 | 2.4M | 1-244-754-00 |
| 2.7 | 1-246-411-00 | 27 | 1-246-435-00 | 270 | 1-246-459-00 | 2.7k | 1-246-483-00 | 27k | 1-246-507-00 | 270k | 1-246-531-00 | 2.7M | 1-244-755-00 |
| 3.0 | 1-246-412-00 | 30 | 1-246-436-00 | 300 | 1-246-460-00 | 3.0k | 1-246-484-00 | 30k | 1-246-508-00 | 300k | 1-246-532-00 | | 1-244-756-00 |
| 3.3 | 1-246-413-00 | 33 | 1-246-437-00 | 330 | 1-246-461-00 | 3.3k | 1-246-485-00 | 33k | 1-246-509-00 | 330k | 1-246-533-00 | ŧ . | 1-244-757-00 |
| 3.6 | 1-246-414-00 | 36 | 1-246-438-00 | 360 | 1-246-462-00 | 3.6k | 1-246-486-00 | 36k | 1-246-510-00 | 360k | 1-246-534-00 | | 1-244-758-00 |
| 3.9 | 1-246-415-00 | 39 | 1-246-439-00 | 390 | 1-246-463-00 | 3.9k | 1-246-487-00 | 39k | 1-246-511-00 | 390k | 1-246-535-00 | | 1-244-759-00 |
| | | | | | | | | | | | | | |
| 4.3 | 1-246-416-00 | 43 | 1-246-440-00 | 430 | 1-246-464-00 | 4.3k | 1-246-488-00 | 43k | 1-246-512-00 | 430k | 1-246-536-00 | 4.3M | 1-244-760-00 |
| 4.7 | 1-246-417-00 | 47 | 1-246-441-00 | 470 | 1-246-465-00 | 4.7k | 1-246-489-00 | 47k | 1-246-513-00 | 470k | 1-246-537-00 | 4.7M | 1-244-761-00 |
| 5.1 | 1-246-418-00 | 51 | 1-246-442-00 | 510 | 1-246-466-00 | 5.1k | 1-246-490-00 | 51k | 1-246-514-00 | 510k | 1-246-538-00 | 5.1M | 1-244-762-00 |
| 5.6 | 1-246-419-00 | 56 | 1-246-443-00 | 560 | 1-246-467-00 | 5.6k | 1-246-491-00 | 56k | 1-246-515-00 | 560k | 1-246-539-00 | | |
| 6.2 | 1-246-420-00 | 62 | 1-246-444-00 | 620 | 1-246-468-00 | 6.2k | 1-246-492-00 | 62k | 1-246-516-00 | 620k | 1-246-540-00 | | |
| 6.8 | 1-246-421-00 | 68 | 1-246-445-00 | 680 | 1-246-469-00 | 6 81 | 1-246-493-00 | 68k | 1-246-517-00 | 680k | 1-246-541-00 | | |
| 7.5 | 1-246-421-00 | 75 | 1-246-446-00 | 750 | 1-246-470-00 | | | 75k | 1-246-517-00 | 750k | 1-246-542-00 | | |
| 1 | 1 | | l I | | | , | | | | | | | |
| 8.2 | 1-246-423-00 | 82 | 1-246-447-00 | 820 | | 3 1 | 1-246-495-00 | 82k | 1-246-519-00 | 820k | 1-246-543-00 | | |
| 9.1 | 1-246-424-00 | 91 | 1-246-448-00 | 910 | 1-246-472-00 | 9.1k | 1-246-496-00 | 91k | 1-246-520-00 | 910k | 1-246-544-00 | | |

HARDWARE NOMENCLATURE



| Reference Designation | Shape | Description | Remarks | | | | | |
|--------------------------|---------------|------------------------------------------------|--------------------------------------------------------------------------|--|--|--|--|--|
| SCREWS | | | | | | | | |
| Р | € | pan-head screw | binding-head (B) screw for replacement | | | | | |
| PWH | 8 ⊒ | pan-head screw with washer face | binding-head (B) screw and flat washer for replacement | | | | | |
| PS PSP | 8 \$3- | pan-head screw with spring washer | binding-head (B) screw and spring washer for replace- ment | | | | | |
| PSW PSPW | 1819 | pan-head screw with spring and flat washers | binding-head (B) screw and spring and flat washers for replacement | | | | | |
| R | €3 | round-head screw | binding-head (B) screw for replacement | | | | | |
| К | Þ | flat-countersunk-head screw | | | | | | |
| RK | €⊐ | oval-countersunk-head screw | | | | | | |
| В | ₽ | binding-head screw | | | | | | |
| T | € ⊃ | truss-head screw | binding-head (B) screw for replacement | | | | | |
| F | ₽= | flat-fillister-head screw | 1 | | | | | |
| RF | €⊒ | fillister-head screw | | | | | | |
| BV | €3 | braizer-head screw | 1 | | | | | |

| Nut, Washer, Retaining ring: | |
|------------------------------|-----------------------------------|
| N 3 | Diameter of usable screw or shaft |
| | Reference designation |

| Reference Designation | Shape | Description | Remarks | |
|--------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------|--|
| | | SELF-TAPPING SCRE | ws | |
| TA | | self-tapping screw | ex: TA, P 3 x 10 | |
| PTP | | pan-head self-tapping screw | binding-head self- tapping (TA, B) screw for replacement | |
| PTPWH | # | pan-head self-tapping binding-head self tapping (TA, B) scriptions (TA | | |
| PTTWH | | pan-head thread-rolling screw with washer face | binding-head (B) screw and flat washer for replacement | |
| | | SET SCREWS | · · · · · · · · · · · · · · · · · · · | |
| sc | - | set screw | | |
| sc | -0 | hexagon-socket set screw | ex: SC 2.6 x 4, hexagon socket | |
| | | NUT | | |
| N | -[]-@- | nut | | |
| | | WASHERS | | |
| w | 0 | flat washer | | |
| SW | | spring washer | | |
| LW | 0 | internal-tooth lock washer | ex: 4LW3, internal | |
| LW | ٥ | external-tooth lock washer | ex: LW3, external | |
| | | RETAINING RINGS | • | |
| E | . 6 | retaining ring | | |
| G | (2) | grip-type retaining ring | | |

Sony Corporation

SONY. SERVICE MANUAL

US Model AEP Model

SUPPLEMENT-1

File this Supplement with the Service Manual.

Subject: Audio Board Change

Audio board has been changed.

According to this change, printed wiring boards, schematic diagram and electrical parts list are added.

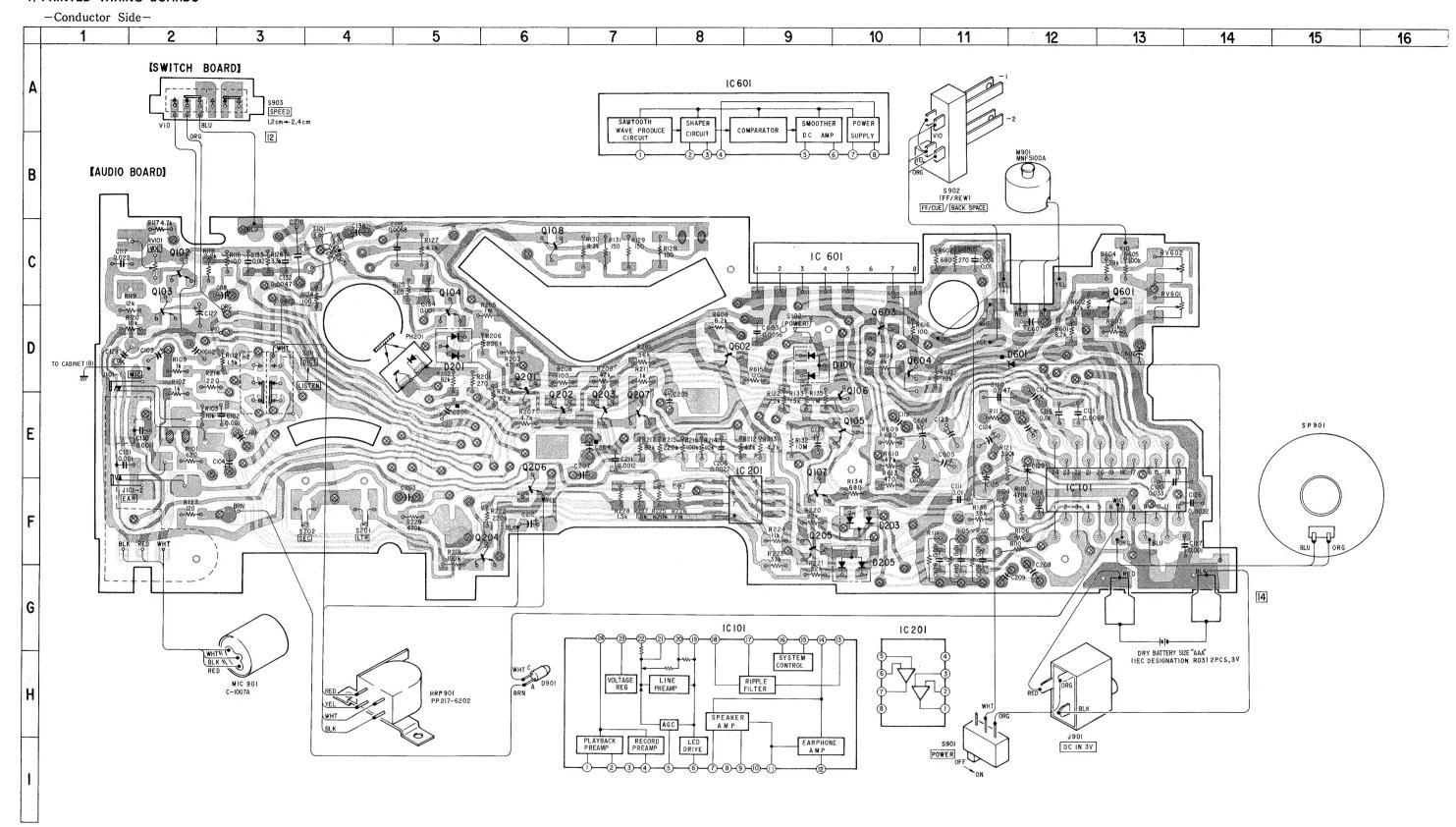
Semiconductors Lead Layout

| CX807 NJM2903M | 1S2836 |
|-------------------|----------------------|
| CX891 | MA152WK |
| | 3 2 1 2 3 1 |
| NJL5141E | SLP114A |
| 2SA1150 | RD2.4ES-B2 |
| letter side | anode |
| 2SC2712-G | |

SEMICONDUCTOR LOCATION

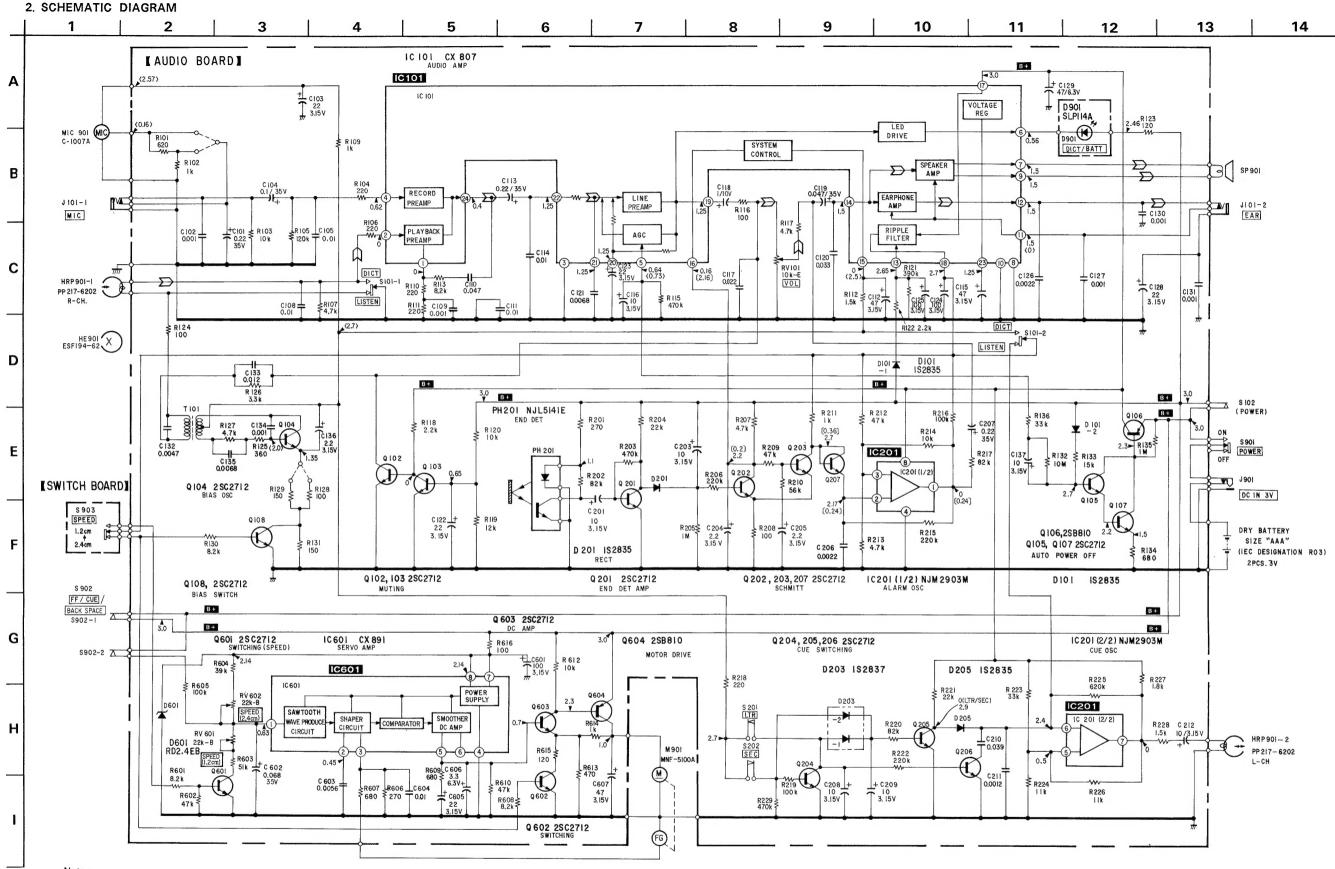
| Ref. No. | Location |
|----------|----------|
| IC101 | F-12 |
| IC201 | F-8 |
| IC601 | C-9 |
| Q102 | C-2 |
| Q103 | C-2 |
| Q104 | C-5 |
| Q105 | E-10 |
| Q106 | D-10 |
| Q107 | E-9 |
| Q108 | C-6 |
| Q201 | D-6 |
| Q202 | E-6 |
| Q203 | E-7 |
| Q204 | F-6 |
| Q205 | F-9 |
| Q206 | E-6 |
| Q207 | E-7 |
| Q601 | C-13 |
| Q602 | D-8 |
| Q603 | D-10 |
| Q604 | D-10 |
| D101 | D-9 |
| D201 | D-5 |
| D203 | F-10 |
| D205 | F-10 |
| D601 | D-11 |

1. PRINTED WIRING BOARDS



Note

- O-: parts extracted from the component side.
- • : parts extracted from the conductor side.
- $\cdot \otimes$: Through hole.
- Pattern on the side which is seen.



Note:

- All capacitors are in μ F unless otherwise noted, pF: μ μ F 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, $\frac{1}{N}$ or $\frac{1}{N}$ W unless otherwise noted. k Ω : 1000 Ω , M Ω : 1000k Ω
- **B+** : B+ Line
- · : adjustment for repair.

- Voltages are taken with a VOM (Input impedance 10M Ω). Voltage variations may be noted due to normal production tolerances.
- no mark : LISTEN
- < >: DICT
- []: tape end
- Signal path.

3. ELECTRICAL PARTS LIST

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS: MF: μF, PF: μμF.

RESISTORS

- All resistors are in ohms.
 F: nonflammable

COILS
• MMH: mH, UH: μH

SEMICONDUCTORS

In each case, U: μ , for example: UA...: μ A..., UPA...: μ PA..., UPC...: μ PD...

| Ref.No. | Part No. | Description | | | Ref.No. | Part No. | Description | | | |
|---------------------------|-----------------------------------------------------------|-----------------------------------------------------------------------|----------------------|-------------------------|--------------------------|---------------------------------------------------|--------------------------------------------------------------------|----------------------------|-------------------|-----------------------|
| | * A-3015-170-A * 1-605-556-00 | MOUNT BLOCK ASSY, AU PC BOARD, SWITCH | DIO | | C21 2 C601 C602 | 1-131-389-00 1-131-395-00 1-131-401-00 | TANTALUM TANTALUM TANTALUM | 1 OMF 1 OOMF 0.068MF | 20% 10% 10% | 3.15V 3.15V 35V |
| C1 01 C1 02 C1 03 | 1 -1 31 -404-00 1 -1 63-009-11 1 -1 31 -391 -00 | TANTALUM 0.22MF CERAMIC CHIP 0.001MF TANTALUM 22MF | 20% 10% 10% | 35V 50V 3.15V | C603 C604 C605 | 1-163-018-00 1-164-232-11 1-131-391-00 | CERAMIC CHIP CERAMIC CHIP TANTALUM | | 10% 10% 10% | 50V 50V 3.15V |
| C1 04 C1 05 C1 08 | 1-131-402-00 1-164-232-11 1-164-232-11 | TANTALUM 0.1 MF CERAMIC CHIP 0.01 MF CERAMIC CHIP 0.01 MF | 20% 10% 10% | 35∜ 50V 50V | C606 C607 | 1 -1 31 -422-00 1 -1 31 -393-00 | TANTALUM TANTALUM | 3.3MF 47MF | 20% 10% | 6.3V 3.15V |
| C1 09 C1 1 0 C1 1 1 | 1-163-009-11 1-163-075-00 1-164-232-11 | CERAMIC CHIP 0.001 MF CERAMIC CHIP 0.047MF CERAMIC CHIP 0.01 MF | | 50V 25V 50V | D1 01 D201 D203 | 8-719-104-34 8-719-104-34 8-719-400-18 | DIODE 152836 DIODE 152836 DIODE MA152WK | | | |
| C112 C113 C114 | 1 -1 31 -393-00 1 -1 31 -404-00 1 -1 64-232-11 | TANTALUM 47MF TANTALUM 0.22MF CERAMIC CHIP 0.01 MF | 10% 20% 10% | 3.15V 35V 50V | D205 D601 D901 | 8-71 9-1 04-34 8-71 9-1 09-57 8-71 9-921-14 | DIODE RD2.4ES-B2 | | | |
| C115 | 1-131-393-00 | TANTALUM 47MF | 10% | 3.15 | HE901 | 8-825-772-01 | HEAD, ERACE (ESF194-62G) | | | |
| C116 C117 | 1 -1 31 -389-00 1 -1 63-037-11 | TANTALUM 1 OMF CERAMIC CHIP 0.022M | 20% 10% | 3.15V 25V | HRP901 | 1-543-321-11 | HEAD, MAGNET | | | |
| C118 C119 C120 | 1 -1 31 -41 3-00 1 -1 31 -400-00 1 -1 63-078-11 | TANTALUM 1 MF TANTALUM 0.047MI CERAMIC CHIP 0.033MI | | 1 0V 35V 25V | 1C1 01 1C201 1C601 | 8-759-906-61 8-759-981-65 8-759-904-68 | IC CX-807 IC LM2903M IC CX-891 | | | |
| C1 21 | 1-163-019-00 | CERAMIC CHIP 0.0068 | | 50 V | J1 01 J901 | | | | | |
| C1 22 C1 23 | 1 -1 31 -391 -00 1 -1 31 -391 -00 | TANTALUM 22MF TANTALUM 22MF | 1 0% 1 0% | 3.15V 3.15V | M901 | 1-541-440-11 | MOTOR | | | |
| C1 24 | 1-131-395-00 | TANTALUM 100MF | 10% | 3.15V | MI C901 | 8-81 4-1 89-31 | MICROPHONE, BUILT-IN (C-1007A) | | | |
| C1 25 C1 26 | 1-131-395-00 | TANTALUM 1 00MF CERAMIC CHIP 0.0022 | 10% 1F 10% | 3.15V 50V | PH201 | 8-71 9-751 -43 | DIODE NJL5141E-AB | | | |
| C1 27 C1 28 C1 29 | 1-163-009-11 1-131-391-00 1-131-381-00 | CERAMIC CHIP 0.001M TANTALUM 22MF TANTALUM 47MF | 10% 10% 10% | 50V 3.15V 6.3V | Q1 02 Q1 03 Q1 04 | 8-729-271-22 8-729-271-22 8-729-271-22 | TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 | SC2712-G | | |
| C1 30 C1 31 C1 32 | 1 -1 63-205-00 1 -1 63-205-00 1 -1 63-01 7-00 | CERAMIC CHIP 0.001M CERAMIC CHIP 0.001M CERAMIC CHIP 0.0047 | 10% | 50V 50V 50V | Q1 05 Q1 06 Q1 07 | 8-729-271-22 8-729-205-02 8-729-271-22 | TRANSISTOR 2SC2712-G TRANSISTOR 2SA1150 TRANSISTOR 2SC2712-G | | | |
| C1 33 C1 34 C1 35 | 1-163-022-00 1-163-009-11 1-163-057-00 | CERAMIC CHIP 0.012M CERAMIC CHIP 0.001M CERAMIC CHIP 0.0068 | 10% | 50V 50V 50V | Q1 08 Q201 Q202 | 8-729-271-22 8-729-271-22 8-729-271-22 | TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 | SC2712-G | | |
| C1 36 C1 37 C201 | 1 -1 31 -41 9-00 1 -1 31 -389-00 1 -1 31 -389-00 | TANTALUM 2.2MF TANTALUM 1 OMF TANTALUM 1 OMF | 20% 20% 20% | 3.15V 3.15V 3.15V | Q203 Q204 Q205 | 8-729-271-22 8-729-271-22 8-729-271-22 | TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 | SC2712-G | | |
| C203 C204 C205 | 1 -1 31 -389-00 1 -1 31 -41 9-00 1 -1 31 -41 9-00 | TANTALUM 1 OMF TANTALUM 2.2MF TANTALUM 2.2MF | 20% 20% 20% | 3.15V 3.15V 3.15V | Q206 Q207 Q601 | 8-729-271-22 8-729-271-22 8-729-271-22 | TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 | SC2712-G | | |
| C206 C207 C208 | 1 -1 64 -1 61 -11 1 -1 31 -404 -00 1 -1 31 -389 -00 | CERAMIC CHIP 0.0022F TANTALUM 0.22MF TANTALUM 10MF | 1F 10% 20% 20% | 50V 35V 3.15V | Q602 Q603 Q604 | 8-729-271-22 8-729-271-22 8-729-205-02 | TRANSISTOR 2 TRANSISTOR 2 TRANSISTOR 2 | SC2712-G | | |
| C209 C210 C211 | 1-131-389-00 1-130-490-11 1-163-143-00 | TANTALUM 1 OMF MYLAR 0.039M CERAMIC CHIP 0.0012 | | 3.15V 50V 50V | | | | | | |

| Ref.No. | Part No. | Description | | | | Ref.No. | Part No. | Description | | | |
|----------------------|------------------------------------------------------------|-------------------------------------------|---------------------|----------------|-------------------------------|------------------------------------|--------------------------------------------------------------|----------------------------------------------------------------------------------------|--------|--------|---------|
| R1 01 | 1-216-044-00 | METAL GLAZE | 620 | 5% | 1 /1 OW | R212 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1 /1 OW |
| R1 02 | 1-216-049-00 | METAL GLAZE | 1 K | 5% | 1 /1 OW | R213 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1 /1 OW |
| R1 03 | 1-216-073-00 | METAL GLAZE | 1 OK | 5% | 1 /1 OW | R214 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1 /1 OW |
| R1 04 | 1-249-409-11 | CARBON | 220 | 5% | 1/8W | R215 | 1-216-105-00 | METAL GLAZE | 220K | 5% | 1 /1 OW |
| R1 05 | 1-215-471-00 | CARBON | 120K | 5% | 1/8W | R216 | 1-216-097-00 | METAL GLAZE | 1 00K | 5% | 1 /1 OW |
| R1 06 | 1-249-409-11 | CARBON | 220 | 5% | 1/8W | R217 | 1-216-095-00 | METAL GLAZE | 82K | 5% | 1 /1 OW |
| R1 07 | 1-249-425-11 | CARBON | 4.7K | 5% | 1/8W | R218 | 1-216-033-00 | METAL GLAZE | 220 | 5% | 1 /1 OW |
| R1 09 | 1-216-049-00 | METAL GLAZE | 1K | 5% | 1/10W | R219 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1 /1 OW |
| R1 1 0 | 1-249-409-11 | CARBON | 220 | 5% | 1/8W | R220 | 1-216-095-00 | METAL GLAZE | 82K | 5% | 1 /1 OW |
| R111 | 1-249-409-11 | CARBON | 220 | 5% | 1/8W | R221 | 1 -21 6-081 -00 | METAL GLAZE | 22K | 5% | 1/10W |
| R112 | 1-216-053-00 | METAL GLAZE | 1.5K | 5% | 1/10W | R222 | 1 -21 6-1 05-00 | METAL GLAZE | 220K | 5% | 1/10W |
| R113 | 1-249-428-11 | CARBON | 8.2K | 5% | 1/8W | R223 | 1 -21 6-085-00 | METAL GLAZE | 33K | 5% | 1/10W |
| R115 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1 /1 OW | R224 | 1-216-074-00 | METAL GLAZE | 11K | 5% | 1 /1 OW |
| R116 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1 /1 OW | R225 | 1-216-116-00 | METAL GLAZE | 620K | 5% | 1 /1 OW |
| R117 | 1-216-065-00 | METAL GLAZE | 4.7K | 5% | 1 /1 OW | R226 | 1-216-074-00 | METAL GLAZE | 11K | 5% | 1 /1 OW |
| R118 | 1 -21 6-057-00 | METAL GLAZE | 2.2K | 5% | 1 /1 OW | R227 | 1-216-055-00 | METAL GLAZE | 1.8K | 5% | 1 /1 OW |
| R119 | 1 -21 6-075-00 | METAL GLAZE | 12K | 5% | 1 /1 OW | R228 | 1-216-053-00 | METAL GLAZE | 1.5K | 5% | 1 /1 OW |
| R120 | 1 -21 6-073-00 | METAL GLAZE | 10K | 5% | 1 /1 OW | R229 | 1-216-113-00 | METAL GLAZE | 470K | 5% | 1 /1 OW |
| R1 21 | 1-216-111-00 | METAL GLAZE | 390K | 5% | 1 /1 OW | R601 | 1-216-071-00 | METAL GLAZE | 8.2K | 5% | 1 /1 OW |
| R1 22 | 1-216-057-00 | METAL GLAZE | 2.2K | 5% | 1 /1 OW | R602 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1 /1 OW |
| R1 23 | 1-216-027-00 | METAL GLAZE | 120 | 5% | 1 /1 OW | R603 | 1-216-090-00 | METAL GLAZE | 51K | 5% | 1 /1 OW |
| R1 24 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1 /1 OW | R604 | 1-216-748-11 | METAL GLAZE | 39K | 5% | 1 /1 OW |
| R1 25 | 1-216-038-00 | METAL GLAZE | 360 | 5% | 1 /1 OW | R605 | 1-216-097-00 | METAL GLAZE | 100K | 5% | 1 /1 OW |
| R1 26 | 1-216-061-00 | METAL GLAZE | 3.3K | 5% | 1 /1 OW | R606 | 1-216-035-00 | METAL GLAZE | 270 | 5% | 1 /1 OW |
| R1 27 | 1-216-214-00 | METAL GLAZE | 4.7K | 5% | 1/8W | R607 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1 /1 OW |
| R1 28 | 1-216-174-00 | METAL GLAZE | 100 | 5% | 1/8W | R608 | 1-216-071-00 | METAL GLAZE | 8.2K | 5% | 1 /1 OW |
| R1 29 | 1-216-178-00 | METAL GLAZE | 150 | 5% | 1/8W | R609 | 1-216-045-00 | METAL GLAZE | 680 | 5% | 1 /1 OW |
| R1 30 | 1 -21 6-220-00 | METAL GLAZE | 8.2K | 5% | 1/8W | R610 | 1-216-089-00 | METAL GLAZE | 47K | 5% | 1 /1 OW |
| R1 31 | 1 -21 6-029-00 | METAL GLAZE | 150 | 5% | 1/10W | R612 | 1-216-073-00 | METAL GLAZE | 10K | 5% | 1 /1 OW |
| R1 32 | 1 -21 6-294-00 | METAL GLAZE | 10M | 5% | 1/8W | R613 | 1-216-041-00 | METAL GLAZE | 470 | 5% | 1 /1 OW |
| R1 33 | 1 -21 6-077-00 | METAL GLAZE | 15K | 5% | 1 /1 OW | R614 | 1-216-198-00 | METAL GLAZE | 1K | 5% | 1/8W |
| R1 34 | 1 -21 6-045-00 | METAL GLAZE | 680 | 5% | 1 /1 OW | R615 | 1-216-027-00 | METAL GLAZE | 120 | 5% | 1/10W |
| R1 35 | 1 -21 6-1 21 -00 | METAL GLAZE | 1M | 5% | 1 /1 OW | R616 | 1-216-025-00 | METAL GLAZE | 100 | 5% | 1/10W |
| R1 36 | 1-216-085-00 | METAL GLAZE | 33K | 5% | 1 /1 OW | RV1 01 | 1-228-898-00 | RES, VAR, CARBON 10K (VOL) | | | |
| R201 | 1-216-035-00 | METAL GLAZE | 270 | 5% | 1 /1 OW | RV601 | 1-228-356-00 | RES, ADJ, METAL GLAZE 22K | | | |
| R202 | 1-216-095-00 | METAL GLAZE | 82K | 5% | 1 /1 OW | RV602 | 1-228-356-00 | RES, ADJ, METAL GLAZE 22K | | | |
| R203 R204 R205 | 1 -21 6 -11 3 -00 1 -21 6 -081 -00 1 -21 6 -1 21 -00 | METAL GLAZE METAL GLAZE METAL GLAZE | 470K 22K 1 M | 5% 5% 5% | 1 /1 OW 1 /1 OW 1 /1 OW | \$1 01 \$1 02 \$201 \$202 | 1-553-223-00 1-553-817-00 1-554-297-00 1-553-817-00 | SWITCH, SLIDE (DICT/LISTEN) SWITCH, LEAF (POWER) SWITCH, LEAF (LTR) SWITCH, LEAF (SEC) | | | |
| R206 R207 R208 | 1 -21 6-1 05-00 1 -21 6-065-00 1 -21 6-025-00 | METAL GLAZE METAL GLAZE METAL GLAZE | 220K 4.7K 100 | 5% 5% 5% | 1 /1 0W 1 /1 0W 1 /1 0W | \$901 \$902 \$903 | 1-553-197-00 1-553-818-00 1-553-280-21 | SWITCH, SLIDE SWITCH, LEAF SWITCH, SLIDE | (FF/CU | E/BACK | SPACE) |
| R209 R210 | 1 -21 6-089-00 1 -21 6-091 -00 | | | 5% | 1 /1 OW 1 /1 OW | SP901 | 1-502-896-21 | SPEAKER | | | |
| | 1-216-049-00 | METAL GLAZE | 1 K | 5% | 1/1 OW | ПОП | 1-433-239-00 | TRANSFORMER, | BIAS 0 | SCILLA | TOR |